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February 7, 2012

Mr. Kenneth Bardo - LU-9J U.S. EPA Region V Corrective Action Section 77 West Jackson Boulevard Chicago, IL 60604-3507

VIA FEDEX

Re:

Supplemental Groundwater Monitoring Program

4th Quarter 2011 Data Report

Solutia Inc., W. G. Krummrich Plant, Sauget, IL

Dear Mr. Bardo:

Enclosed please find the 4th Quarter 2011 Data Report for the Supplemental Groundwater Monitoring Program for Solutia Inc.'s W. G. Krummrich Plant, Sauget, IL. (The related Long-Term Monitoring Program report is being submitted separately.)

If you have any questions or comments regarding this report, please contact me at (314) 674-3312 or gmrina@solutia.com

Sincerely,

Gerald M. Rinaldi

Manager, Remediation Services

Inda & Killin

Enclosure

cc: Distribution List

DISTRIBUTION LIST

Supplemental Groundwater Monitoring Program 4th Quarter 2011 Data Report Solutia Inc., W. G. Krummrich Plant, Sauget, IL

USEPA

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4 TH QUARTER 2011 DATA REPORT

SUPPLEMENTAL GROUNDWATER MONITORING PROGRAM

SOLUTIA INC. W.G. KRUMMRICH FACILITY SAUGET, ILLINOIS

Prepared for
Solutia Inc.
575 Maryville Centre Drive
St. Louis, Missouri 63141

February 2012



URS Corporation 1001 Highland Plaza Drive West, Suite 300 St. Louis, MO 63110 (314) 429-0100 Project: 21562703.00002

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1.0 INTRODUCTION

This report presents the results of the 4th Quarter 2011 (4Q11) sampling event performed north of the Solutia Inc. (Solutia) W.G. Krummrich (WGK) Facility located in Sauget, Illinois (Site). This sampling event was conducted as an extension to, and in accordance with procedures outlined in, the Revised Long-Term Monitoring Program (LTMP) Work Plan (Solutia 2009). The scope of this Supplemental Groundwater Monitoring Program (SGMP) was outlined in Solutia correspondence to the United Stated Environmental Protection Agency Region 5 (USEPA) dated August 16, 2011, and a subsequent August 18, 2011 letter from USEPA. As presented in the latter document, the objective of this work is to collect monitoring and measurement data necessary to verify that the migration of contaminated groundwater from WGK is stable. The Site location is presented in **Figure 1**.

Groundwater Sampling Location and Frequency – Quarterly sampling of the SGMP wells commenced 3Q11, with an expected duration of four quarters, through 2Q12. For the 4Q11 groundwater sampling event, groundwater samples were collected from piezometers GWE-1D, GWE-2D and GWE-3D, along with monitoring well GWE-5D, all located northwest of WGK in Sauget, Illinois. Monitoring well locations are presented in **Figure 2**.

Groundwater Sampling Parameters – During the 4Q11 groundwater sampling event, groundwater samples were analyzed for benzene, chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene using USEPA Method 8260B.

Samples for analysis of Monitored Natural Attenuation (MNA) parameters were collected from five SGMP wells. Evaluation of the types of active natural attenuation processes at the site is based on the following key geochemical parameters:

Electron Donors: Organic Carbon (Total and Dissolved)

Electron Acceptors: Iron (Total and Dissolved)

Manganese (Total and Dissolved)

Nitrate Sulfate

Biodegradation Byproducts: Carbon Dioxide

Chloride Methane

Biodegradation Indicators: Alkalinity

2.0 FIELD PROCEDURES

URS Corporation (URS) conducted piezometer and monitoring well installation activities in November 2011, prior to 4Q11 groundwater sampling activities on December 5 and 6, 2011. Sampling activities were completed in accordance with procedures outlined in the Revised

LTMP Work Plan, including the collection of appropriate quality assurance and quality control (QA/QC) samples.

The following section summarizes field investigative procedures:

Monitoring Well Installation and Development – Two piezometers and a permanent monitoring well were installed at the northeast corner of Mississippi and Victory Avenues in East St. Louis, Illinois. A piezometer was screened in each of the shallow (GWE-5S) and middle (GWE-5M) hydrogeologic units (SHU and MHU, respectively), and the monitoring well (GWE-5D) was installed in the deep hydrogeologic unit (DHU) to facilitate quarterly collection of groundwater samples (**Figure 2**).

Installation was completed by Roberts Environmental Drilling Inc. (REDI) via hollow-stem auger and mud-rotary drilling techniques. The subsurface stratigraphy was logged by a qualified URS Corporation (URS) field scientist in accordance with the Unified Soil Classification System (USCS) protocols and URS procedures. The field scientist noted soil attributes such as color, particle size, consistency, moisture content, structure, odor (if obvious) and organic content (if visible). A soil boring log is included in **Appendix A**.

The piezometers (GWE-5S and GWE-5M) were constructed using polyvinyl chloride (PVC) riser pipe and 10-foot long screens with 0.01 inch openings. Monitoring well GWE-5D was constructed using stainless steel riser pipe and a 5-foot long screen with 0.01 inch openings.

Upon completion of each borehole, the screen and riser pipe were lowered into the boring through the augers. Filter sand was then poured into the borehole through the augers and allowed to settle, followed by bentonite chips filling the remaining annular space to approximately 1.5 feet below ground surface. Once the grout was set the well was completed with a locking flush mount protector. Concrete pads were constructed around each well protector. Wellheads were secured using lockable-expandable caps.

The monitoring well and piezometers were constructed in accordance with the URS SOP on monitoring well installation. In addition to a monitoring well boring log, associated piezometer/well construction diagrams are included in **Appendix A**.

Following the installation, the monitoring well and piezometers were developed in accordance with the URS SOP on monitoring well development. Development was performed by REDI, under the supervision of URS, using a submersible air-lift pump until a minimum of five well volumes were removed and fine-grained materials were removed.

Groundwater Level Measurements – URS personnel used an electronic oil/water interface probe to measure depth to static groundwater levels and if present, the thickness of non-aqueous phase liquid (NAPL), if present, to 0.01 feet. As part of the LTMP, depth to groundwater measurements were collected on November 10, 2011 from accessible existing

WGK monitoring wells (i.e., BSA-, CPA-, GM-, K-, PS-MW- and PMA-series) and piezometer clusters (installed for the Sauget Area 2 RI/FS and WGK CA-750 Environmental Indicator projects) specified in the Revised LTMP Work Plan (Solutia 2009) (**Figure 3**). This group of wells and piezometers includes those that compose the SGMP. Depth to groundwater measurements were collected from piezometers GWE-5S and GWE-5M, along with monitoring well GWE-5D on December 21, 2011 following piezometer/well installation. NAPL was not detected within any of the four SGMP monitoring wells.

Well gauging information for the 4Q11 event is presented in **Table 1**. As the middle and deep hydrogeologic units are the primary migration pathway for constituents present in groundwater at, and in the vicinity of, the WGK Facility, a groundwater potentiometric surface map based on water level data from wells screened in the Middle Hydrogeologic Unit (MHU) and Deep Hydrogeologic Unit (DHU) is presented as **Figure 3**.

Groundwater Sampling – Low-flow sampling techniques were used for groundwater sample collection. At each monitoring well, disposable, low-density polyethylene tubing was attached to a submersible pump, which was then lowered into the well to the middle of the screened interval. Monitoring wells were purged at a rate of 150-400 mL/minute to minimize drawdown. If significant drawdown occurred, flow rates were reduced.

Drawdown was measured periodically throughout purging to ensure that it did not exceed 25% of the distance between the pump intake and the top of the screen. Once the flow rate and drawdown were stable, field measurements were collected approximately every three to five minutes. Purging of a well was considered complete when the following water quality parameters remained stable over three consecutive flow-through cell volumes:

Parameter	Stabilization Guidelines					
Dissolved Oxygen (DO)	+/- 10% or +/-0.2 mg/L, whichever is greatest					
Oxidation-Reduction Potential (ORP)	+/- 20 mV					
рН	+/- 0.2 units					
Specific Conductivity	+/- 3%					

Sampling commenced upon completion of purging. Prior to sample collection, the flow-through cell was bypassed to allow for collection of uncompromised groundwater. Samples were collected at a flow rate less than or equal to the rate at which stabilization was achieved. Sample containers were filled based on laboratory analysis to be performed, in the following order:

- Volatile Organic Compounds (VOCs)
- Gas Sensitive Parameters (e.g., methane, carbon dioxide)
- General Chemistry (i.e., alkalinity, chloride, total and dissolved iron, total and dissolved manganese, nitrate, sulfate, and total and dissolved organic carbon)
- Field Parameters (i.e., dissolved oxygen, ferrous iron, and oxidation-reduction potential).

Samples collected for ferrous iron, dissolved iron and dissolved manganese analysis were filtered in the field using in-line 0.2 micron disposable filters, represented by a notation of "F (0.2)" in the sample nomenclature.

Quality assurance/quality control (QA/QC) samples consisting of analytical duplicates (AD) and equipment blanks (EB) were collected at a rate of 10% and matrix spike/matrix spike duplicates (MS/MSD) were collected at a rate of 5%. In addition, trip blanks accompanied each shipment containing samples for VOC analysis.

Each investigative or QC sample was labeled immediately following collection. Each sample identification number consisted of the following nomenclature "Well ID-MW#-MMYY-QAC" where:

- Well ID includes "GWE-" or "PS-", followed by MW-#D, denoting DHU Monitoring Well Number
- **MMYY** Month and year of sampling quarter, e.g.: Fourth quarter (November) 2011, 1111
- QAC denotes QA/QC sample
 - o **AD** analytical duplicate
 - o **EB** equipment blank
 - o **MS** or **MSD** Matrix Spike or Matrix Spike Duplicate

Upon collection and labeling, sample containers were immediately placed inside an iced cooler, packed in such a way as to help prevent breakage and maintain inside temperature at or below approximately 4°C. Field personnel recorded the project identification and number, sample description/location, required analysis, date and time of sample collection, type and matrix of sample, number of sample containers, preservative used (if applicable), analysis requested/comments, and sampler signature/date/time, with permanent ink on the chain-of-custody (COC). Prior to shipment, coolers were sealed between the lid and sides of the cooler with a custody seal, and then shipped to TestAmerica in Savannah, Georgia by means of an overnight delivery service. Field sampling data sheets are included in **Appendix B**, while copies of COCs are included in **Appendix C**.

Field personnel and equipment were decontaminated according to procedures specified in the Revised LTMP Work Plan to ensure the health and safety of those present, maintain sample integrity, and minimize movement of contamination between the work area and off-site locations. Equipment used on-site was decontaminated prior to beginning work, between sampling locations and/or uses, and prior to demobilizing from the site. Non-disposable purging and sampling equipment was decontaminated between each sample acquisition by washing with an Alconox® or equivalent detergent wash, a potable water rinse, and a distilled water rinse. Personnel and small equipment decontamination was performed at the sample locations. Disposable sampling equipment, such as gloves were collected and bagged on a daily basis

and managed in accordance with Solutia procedures. Purge water was containerized and handled per Solutia procedures.

3.0 LABORATORY PROCEDURES

Samples were analyzed by TestAmerica for VOCs and MNA parameters, using the following methodologies:

- VOCs, via USEPA SW-846 Method 8260B (dichlorobenzenes were quantitated using Method 8260B because of potential volatilization losses associated with Method 8270)
- MNA parameters: alkalinity (310.1), carbon dioxide (310.1), chloride (325.2), total and dissolved iron (6010B), total and dissolved manganese (6010B), dissolved gases (RSK 175), nitrate (353.2), sulfate (375.4), and total and dissolved organic carbon (415.1).

Laboratory results were provided in electronic and hard copy formats.

4.0 QUALITY ASSURANCE

Analytical data were reviewed for quality and completeness, as described in the Revised Long Term Monitoring Program Work Plan (Solutia 2009). Data qualifiers were added, as appropriate, and are included on the data tables and the laboratory result pages. The Quality Assurance report is included as **Appendix D**. The laboratory report along with data review and validation reports are included in **Appendix E**.

A total of 7 groundwater samples (four investigative) samples, one field duplicate, one MS/MSD pair and one equipment blank) were prepared and analyzed by TestAmerica Savannah for combinations of VOCs, dissolved gases, metals, and general chemistry. In addition, three trip blanks were included in the coolers that contained samples for VOC analysis and were analyzed for VOCs. The results for the various analyses were submitted as sample delivery groups (SDGs) KPS069 and KPS070. The samples contained in SDGs KPS069 and KPS070 are listed below:

KPS069	KPS070
GWE-5D-1211	GWE-1D-1211
4Q11 SUPP Trip Blank #1	GWE-3D-1211
	GWE-3D-1211-AD
	GWE-2D-1211
	GWE-2D-1211-EB
	4Q11 SUPP Trip Blank #2
	4Q11 SUPP Trip Blank #3

Evaluation of the groundwater analytical data followed procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods

Data Review (USEPA 2008), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Data Review (USEPA 2010), and the Revised Long-Term Monitoring Program Work Plan (Solutia 2009).

Based on the above mentioned criteria, groundwater results reported for the analyses performed were accepted for their intended use. Acceptable levels of accuracy and precision, based on MS/MSD, laboratory control sample (LCS), surrogate and field duplicate data were achieved for this SDG to meet the project objectives. Completeness which is defined to be the percentage of analytical results which are judged to be valid, including estimated detect/non-detect (J/UJ) data was 100 percent.

5.0 OBSERVATIONS

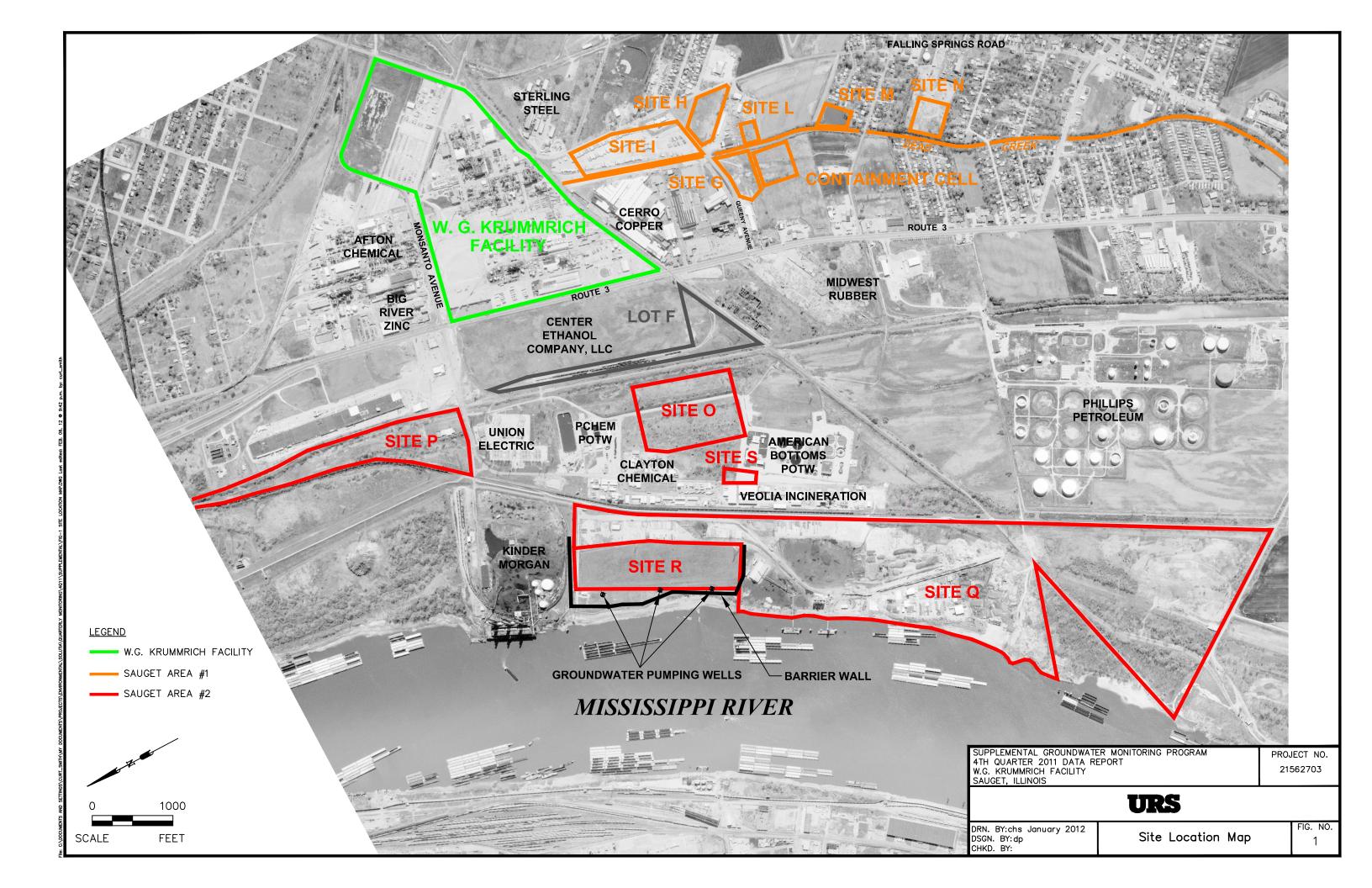
Groundwater analytical detections and MNA results for the 4Q11 SGMP sampling event are presented in **Tables 2** and **3**, respectively. Benzene, chlorobenzene,1,2-dichlorobenzene and 1,4, dichlorobenzene were reported in samples collected from all three piezometers GWE-1D, - 2D, -3D and monitoring well GWE-5D during this sampling event. In addition, 1,3-dichlorobenzene was reported in the sample collected from GWE-5D. Total chlorobenzenes (i.e., the sum of chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene) were detected at concentrations ranging from 16.6 μ g/L (GWE-1D) to 1,730.9 μ g/L (GWE-5D). **Figure 4** displays concentrations of benzene and total chlorobenzenes from the 4Q11 sampling event.

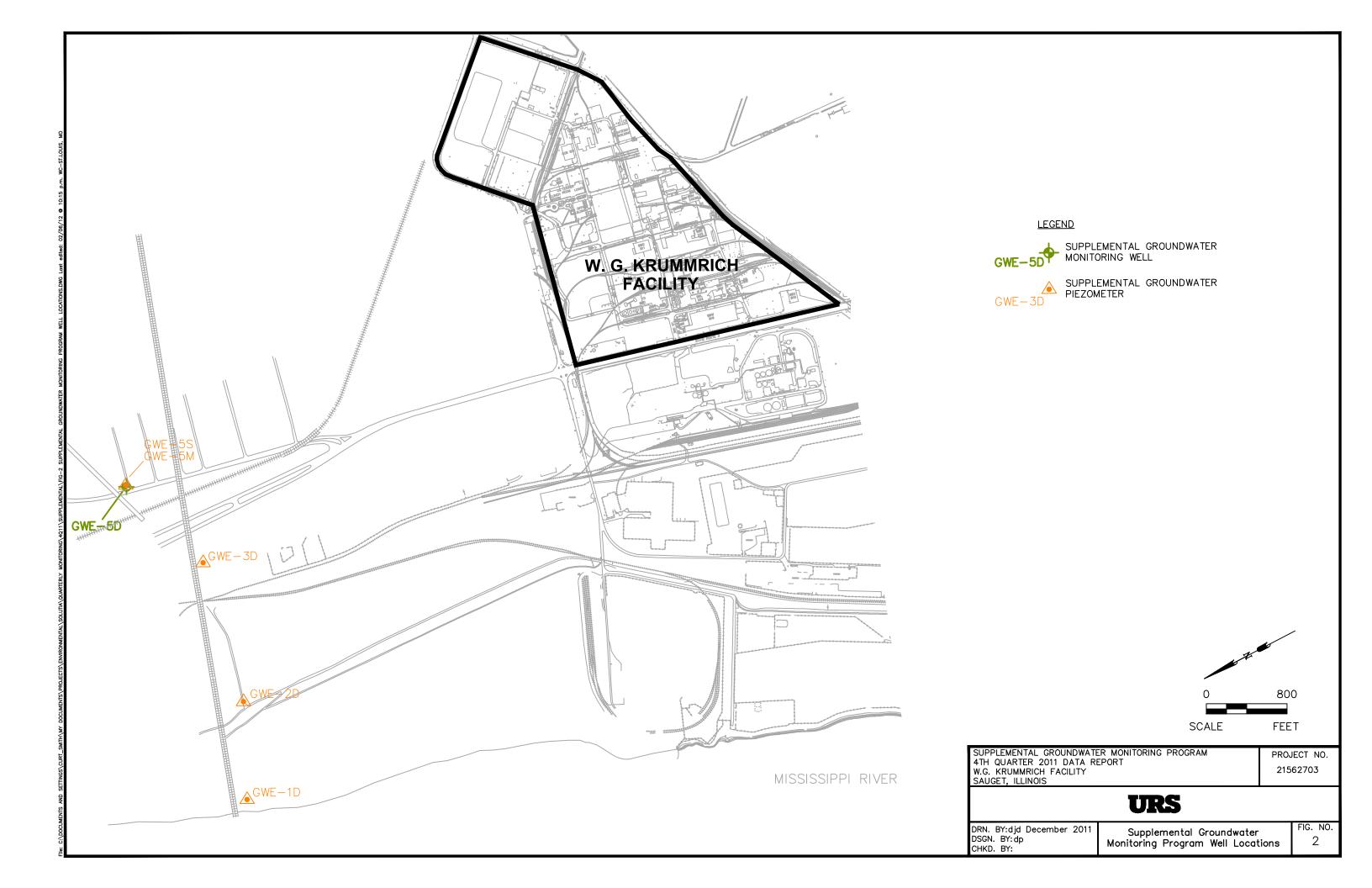
In accordance with the scope outlined for the SGMP, for subsequent groundwater sampling events (i.e. 1st Quarter 2012 (1Q12) and 2nd Quarter 2012 (2Q12)), groundwater samples will be collected from piezometers GWE-1D, -2D, -3D and monitoring well GWE-5D.

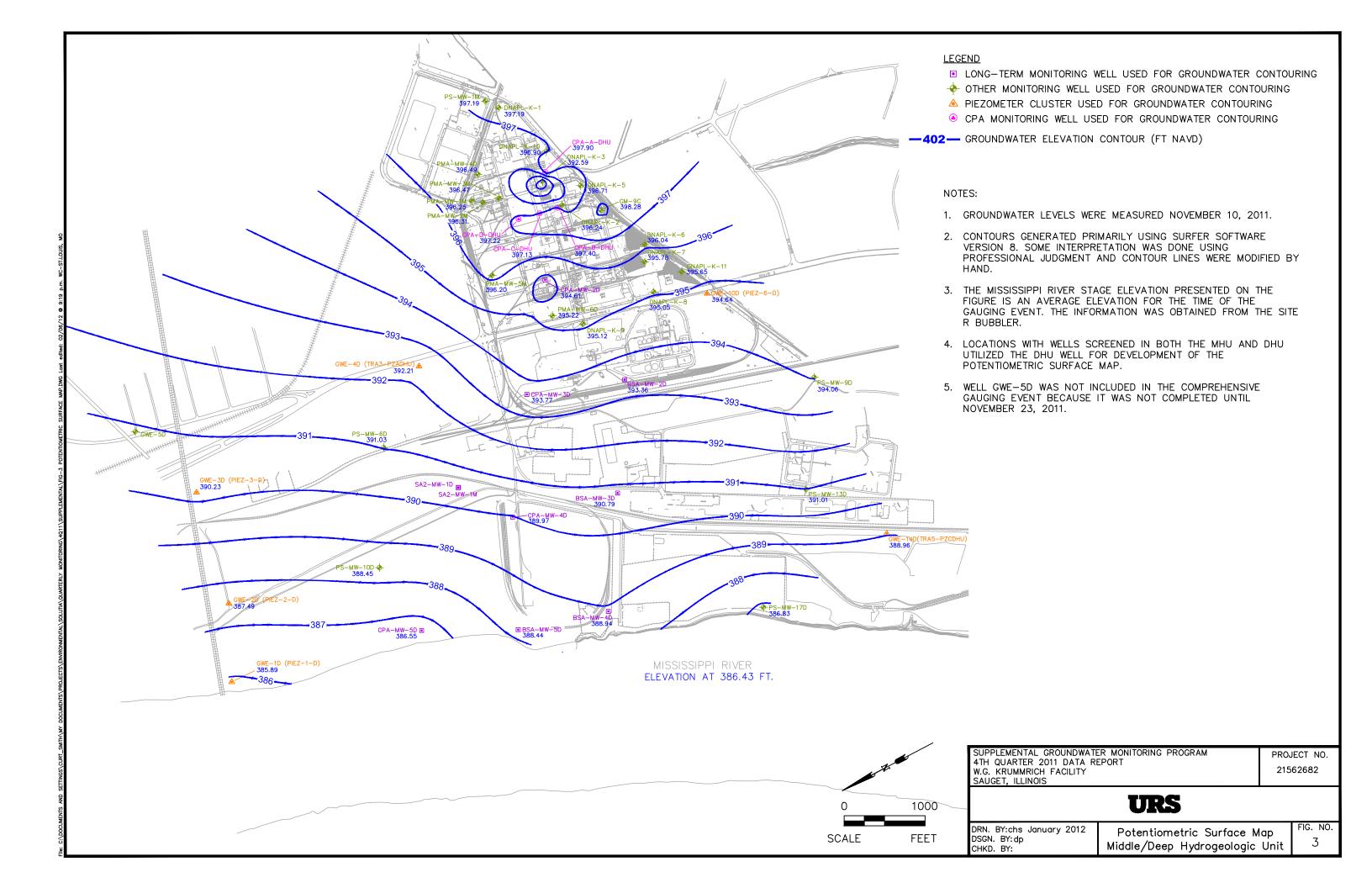
6.0 REFERENCES

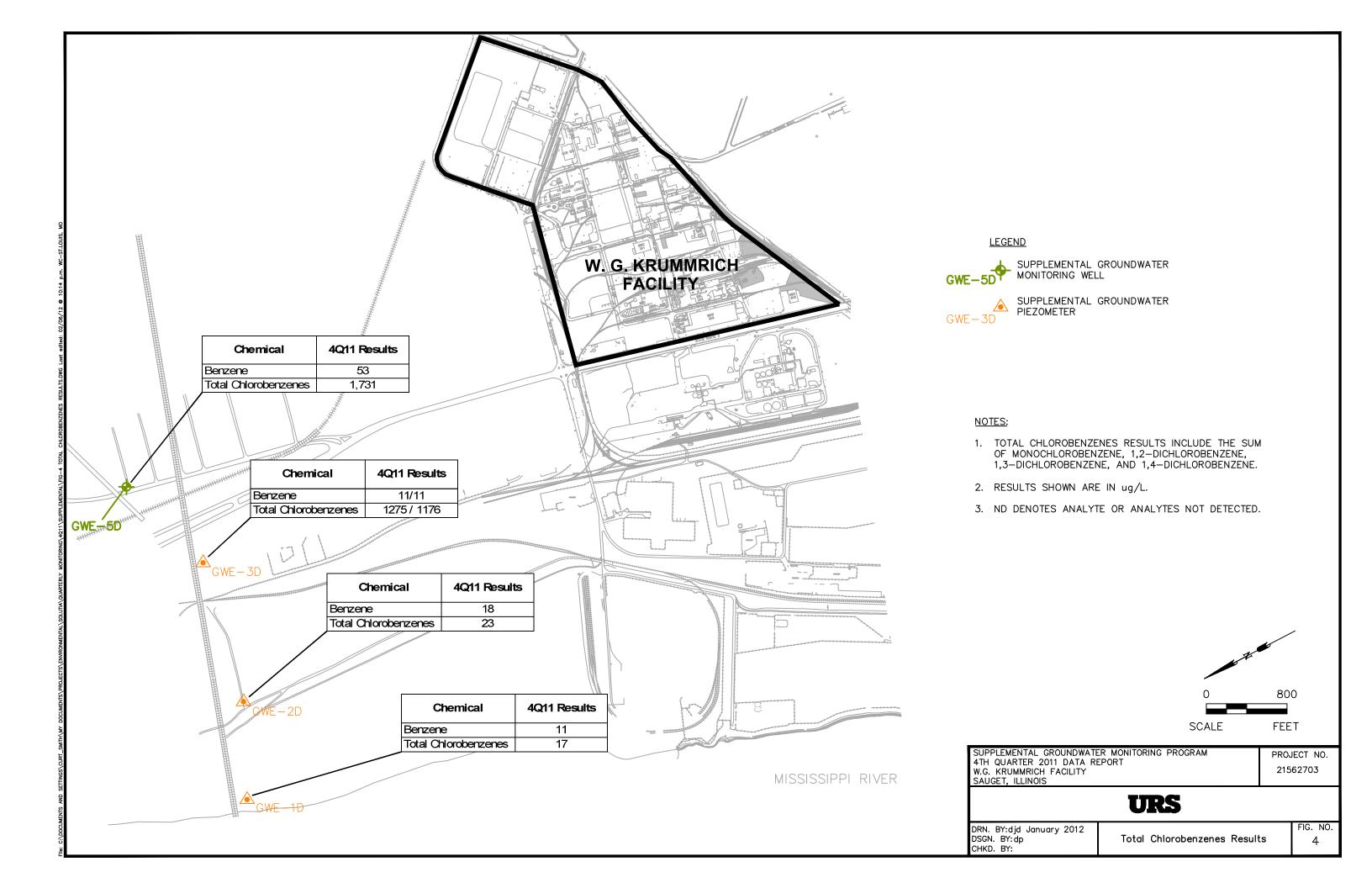
- Solutia Inc, 2009. Revised Long Term Monitoring Program Work Plan, Solutia Inc., W.G. Krummrich Facility, Sauget, Illinois, May 2009.
- Solutia Inc, 2011. Supplemental Groundwater Monitoring Program, Solutia Inc., W.G. Krummrich Facility, Sauget, Illinois, August 2011.
- USEPA, 2008. Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review
- USEPA, 2010. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.

Figures









Tables

Table 1
Monitoring Well Gauging Information

	Construction Details November 10, 2011											
									No	vember 10, 2	011	
Well ID	Northing	Easting	Ground Elevation (feet)	Casing Elevation (feet)	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Depth to Water (feet btoc)	NAPL Thickness (feet)	Water Elevation (feet)	
Shallow Hydrogeol	ogic Unit (SHU	395-380 feet N	AVD 88)									
BSA-MW-1S	702077.000	2294393.200	409.49	412.31	19.68	24.68	389.81	384.81	16.97		395.34	
GWE-1S	708917.243	2292547.419	413.83	416.54	13	23	403.54	393.54	dry		dry	
GWE-2S	708489.510	2293419.566	417.45	417.10	17	27	400.10	390.10	26.32		390.78	
GWE-3S	708190.663	2294821.811	415.03	417.01	25	35	392.01	382.01	37.64		379.37	
GWE-4S	705014.086	2294892.173	406.16	405.75	20	30	385.75	375.75	13.48		392.27	
GWE-5S*	708480.594	2295834.939	408.47	408.05	17.91	27.91	390.56	380.56	17.59		390.46	
PMA-MW-1S	703478.700	2296389.400	410.30	410.06	20.18	25.18	390.12	385.12	12.76		397.30	
PMA-MW-2S	703363.700	2296305.800	412.27	411.66	22.94	27.94	389.33	384.33	15.35		396.31	
PMA-MW-3S	703165.200	2296261.000	412.37	412.06	22.71	27.71	389.66	384.66	15.54		396.52	
PMA-MW-4S	703252.900	2296642.300	411.09	410.43	20.99	25.99	390.10	385.10	13.65		396.78	
SA2-MW-1S	705296.162	2293339.110	403.43	406.01	13.55	23.55	392.46	382.46	23.19		382.82	
Middle Hydrogeolog	gic Unit (MHU	380-350 feet NA	VD 88)									
GWE-1M	708917.243	2292547.419	413.83	416.26	69.40	79.40	346.86	336.86	30.01		NM	
GWE-2M	708489.593	2293419.380	417.82	417.57	67.80	77.80	349.77	339.77	29.64		387.93	
GWE-3M	708190.663	2294821.811	415.03	417.84	68.30	78.30	349.54	339.54	27.58		390.26	
GWE-4M	705019.113	2294893.322	406.11	405.86	43.76	49.76	362.10	356.10	13.48		392.38	
GWE-5M*	708492.425	2295838.821	408.59	408.20	48.10	58.10	360.49	350.49	17.62		390.58	
PMA-MW-1M	703480.400	2296384.600	410.32	410.08	54.54	59.54	355.78	350.78	13.83		396.25	
PMA-MW-2M	703369.400	2296306.200	412.26	411.93	56.87	61.87	355.39	350.39	15.62		396.31	
PMA-MW-3M	703161.200	2296259.500	412.36	412.10	57.07	62.07	355.29	350.29	15.63		396.47	
PMA-MW-5M	703692.400	2295455.200	411.27	410.97	52.17	57.17	359.10	354.10	14.77		396.20	
PS-MW-1M	702746.100	2297398.200	409.37	412.59	37.78	42.78	371.59	366.59	15.40		397.19	
SA2-MW-1M	705301.561	2293339.773	403.55	406.13	53.26	63.26	352.87	342.87	23.60		382.53	
Deep Hydrogeologi		0 feet NAVD 88	- Bedrock)									
BSA-MW-2D	702857.300	2293542.900	412.00	415.13	68.92	73.92	343.08	338.08	21.77		393.36	
BSA-MW-3D	703598.900	2292346.700	412.91	415.74	107.02	112.02	305.89	300.89	24.95		390.79	
BSA-MW-4D	704395.700	2291107.100	425.00	424.69	118.54	123.54	306.46	301.46	35.75		388.94	
BSA-MW-5D	705432.969	2291536.060	420.80	420.49	115.85	120.85	304.95	299.95	32.05		388.44	
CPA-MW-1D	702995.300	2296036.400	408.62	408.32	66.12	71.12	342.50	337.50	15.69		392.63	
CPA-MW-2D	703140.800	2295097.700	408.51	408.20	99.96	104.96	308.55	303.55	13.59		394.61	
CPA-MW-3D	704011.185	2293955.106	410.87	410.67	108.20	113.20	302.67	297.67	16.90		393.77	
CPA-MW-4D	704884.000	2292700.900	421.57	421.20	116.44	121.44	305.13	300.13	31.23		389.97	
CPA-MW-5D	706543.600	2291992.000	411.03	413.15	107.63	112.63	303.40	298.40	26.60		386.55	

W.G. Krummrich Facility - Sauget, Illinois Supplemental Groundwater Monitoring Program

Table 1
Monitoring Well Gauging Information

					Construct	ion Details			No	vember 10, 2	011
Well ID	Northing	Easting	Ground Elevation (feet)	Casing Elevation (feet)	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Depth to Water (feet btoc)	NAPL Thickness (feet)	Water Elevation (feet)
Deep Hydrogeologic	c Unit (DHU 35	0 feet NAVD 88	- Bedrock) (continued)							
DNAPL-K-1	702637.276	2297248.692	413.07	415.56	108.20	123.20	304.87	289.87	18.37		397.19
DNAPL-K-2	702516.436	2295812.713	407.94	407.72	97.63	112.63	310.31	295.31	11.48		396.24
DNAPL-K-3	702591.747	2296185.854	412.13	411.91	104.80	119.80	307.33	292.33	19.32		392.59
DNAPL-K-4	702975.946	2296048.688	409.48	409.15	102.55	117.55	306.93	291.93	16.54		392.61
DNAPL-K-5	702200.888	2295917.619	412.27	411.91	102.15	117.15	310.12	295.12	15.20		396.71
DNAPL-K-6	701842.363	2294900.821	410.43	410.09	102.47	117.47	307.96	292.96	14.05		396.04
DNAPL-K-7	701947.284	2294707.896	408.32	407.72	100.40	115.40	307.92	292.92	11.94		395.78
DNAPL-K-8	702026.795	2294328.368	408.56	411.38	102.65	117.65	305.91	290.91	16.33		395.05
DNAPL-K-9	702986.659	2294396.229	406.45	405.97	97.42	112.42	309.03	294.03	10.85		395.12
DNAPL-K-10	702372.180	2296495.020	413.50	413.25	105.43	120.43	308.07	293.07	16.35		396.90
DNAPL-K-11	701602.110	2294384.230	412.20	411.78	105.46	120.46	306.74	291.74	16.13		395.65
GM-9C	702123.000	2295527.000	409.54	411.21	88.00	108.00	321.54	301.54	12.93		398.28
GWE-1D	708917.2434	2292547.4187	412.80	415.60	117.00	127.00	295.80	285.80	29.71		385.89
GWE-2D	708489.7996	2293419.3725	417.45	417.14	127.00	137.00	290.45	280.45	29.65		387.49
GWE-3D	708190.663	2294821.811	415.03	417.66	104.60	114.60	313.06	303.06	27.43		390.23
GWE-4D	705022.782	2294894.495	406.05	405.74	74.00	80.00	332.05	326.05	13.53		392.21
GWE-5D*	708503.984	2295842.175	408.79	408.38	100.43	105.43	308.36	303.36	18.43		389.95
GWE-10D	701453.118	2293997.843	410.15	412.87	102.50	112.50	307.65	297.65	18.23		394.64
GWE-14D	700852.103	2290273.514	420.47	422.90	90.00	96.00	330.47	324.47	33.94		388.96
PMA-MW-4D	703248.900	2296639.200	411.22	410.88	68.84	73.84	342.38	337.38	14.39		396.49
PMA-MW-6D	703270.300	2294662.400	407.63	407.32	96.49	101.49	311.14	306.14	12.10		395.22
PS-MW-6	705885.100	2294213.500	404.11	406.63	102.32	107.32	304.31	299.31	15.60		391.03
PS-MW-9D	700773.800	2292454.500	403.92	403.52	100.40	105.40	303.52	298.52	9.46		394.06
PS-MW-10	706634.200	2292926.700	409.63	412.18	103.78	108.78	308.40	303.40	23.73		388.45
PS-MW-13D	701516.900	2291281.000	405.80	405.53	106.08	111.08	299.72	294.72	14.52		391.01
PS-MW-17D	702674.300	2290245.400	420.22	423.26	121.25	126.25	298.97	293.97	36.43		386.83
SA2-MW-1D	705306.772	2293340.413	403.79	406.03	105.01	115.01	301.02	291.02	23.86		382.17

Notes:

bgs - below ground surface

btoc - Below top of casing

Coordinates--State Plane 1983, Illinois West, NAD 1983.

Elevation based upon North American Vertical Datum (NAVD) 88 datum

W.G. Krummrich Facility - Sauget, Illinois Supplemental Groundwater Monitoring Program

^{* -} Measured on 12/2/11

Table 2
Groundwater Analytical Results

			V	OC (μg/L)		
Sample ID	Sample Date	Benzene	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
GWE-1D-1211	12/5/2011	11	11	1.6	<1	4
GWE-2D-1211	12/6/2011	18	19	1.2	<1	2.9
GWE-3D-1211	12/6/2011	11	1200	11	<10	64
GWE-3D-1211-AD	12/6/2011	11	1100	11	<10	65
GWE-5D-1211	12/5/2011	53	1600 D	17	3.9	110

Notes:

μg/L = micrograms per liter

< = Result is non-detect, less than the reporting limit given.

BOLD indicates concentration greater than reporting limit.

AD = Analytical Duplicate

D = compound analyzed at a dilution

Table 3
Monitored Natural Attenuation Results Summary

Sample ID	Sample Date	Alkalinity (mg/L)	Carbon Dioxide (mg/L)	Chloride (mg/L)	Dissolved Oxygen (mg/L)	Ethane (ug/L)	Ethylene (ug/L)	Ferrous Iron (mg/L)	Iron (mg/L)	Iron, Dissolved (mg/L)	Manganese (mg/L)	Manganese, Dissolved (mg/L)	Methane (ug/L)	Nitrogen, Nitrate (mg/L)	Sulfate as SO4 (mg/L)	Dissolved Organic Carbon (mg/L)	Total Organic Carbon (mg/L)	ОКР (mV)
GWE-1D-1211	12/5/2011	460	28	70	0.09	<1.1	<1		19		0.53		5.6	0.064	300		2.5	143.96
GWE-1D-F(0.2)-1211	12/5/2011							>3.3		18		0.52				2.5		
GWE-2D-1211	12/6/2011	500	25	95	0.28	<1.1	<1		18		0.41		1.1	< 0.05	310		2.8	171.35
GWE-2D-F(0.2)-1211	12/6/2011							>3.3		17		0.39				3		
GWE-3D-1211	12/6/2011	410	21	59	-0.06	<1.1	<1		12		0.36		16	< 0.05	170		2.8	176.78
GWE-3D-F(0.2)-1211	12/6/2011							>3.3		13		0.38				3.1		
GWE-5D-1211	12/5/2011	400	33	89	-0.21	<1.1	<1		13		0.39		58	< 0.05	280		16	75.0
GWE-5D-F(0.2)-1211	12/5/2011							>3.3		14		0.42				16		

Notes:

DO and ORP were measured in the field using an In-Situ Troll 9500 equipped with a flow-thru cell. Values presented represent final measurements before sampling Ferrous Iron readings were measured in the field using a LaMotte Colorimeter after the groundwater passed through a 0.2 µm filter

Ferrous from readings were measured in the field using a Lawfolte Colorimeter after the groundwater passed through a 0.2 µm filter function.

F(0.2) = Sample was filtered utilizing a 0.2 µm filter during sample collection.

r(0.2) = Sample was intered utilizing a 0.2 pm litter during sample collection

mg/L = milligrams per liter

mV = millivolts

ug/L = micrograms per liter

< = Result is non-detect, less than the reporting limit given

A blank space indicates sample not analyzed for select analyte

Appendix A

Soil Boring Log and Piezometer/Monitoring Well Construction Diagrams

					WE	LOG OF BORIN				
	eet	Piezometer/W				GWE-5				
	Depth In feet	GWE-5 GWE-5 G	loqu	nscs	Completion Date: 11/23/11 Casing Elevation: 408.05 (S), 408 Ground Elevation: 408.47 (S), 408	3.20 (M), 408.38 (D) 3.59 (M), 408.79 (D) ESCRIPTION	Coordin North East	nates ning: N/A ting: N/A	NO	TES
		44 44	12	<u> </u>	TOPSOIL					· — ·
			7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
					OT TO G					
					SILT (ML), soft, dry, brown					
	_							 		
	_							 		
	3			ML				 		
			1 XIIII							
			1 MIII							
			1 XIII							
					GTL GANTO (OLO 1			 		
					Silty SAND (SM), dry, brown			 		
	10									
	_									
			1×11							
				SM				 		
			1811					 		
	15									
			1811					 		
					SAND (SP), brown, well graded f	ine to medium		 		
							Ī	 		
			1 🖂 🗀							
/2/12	20							 		
OT 2								 		
V.GE										
STLE			1 🖂 🗎							
JRS										
PJ (SP				 		
12).G			1 🖂							
. 2-2-	25				Becomes wet		$\bar{\Delta}$			
NTIA M			1 🖂							
(SOL				1.1] 1.1}						
0004										
03.00	-		1 H							
5627										
2) 21			1 X							
SOLUTIA 3 WELL TEMPLATE (2012) 21562703.00004 (SOLUTIA 2-2-12),GPJ URSSTLEV.GDT 2/2/12	Comp	oletion Depth:	107 ft b	gs	I	Water Denth:	25	ft., After	ATD hr	·S.
_ATE	Projec	ct No.:2	21562703			Water Depth: Water Depth:	18	ft., After _2	8 days	
EMPI	Projec	ct Name: Solu	ıtia WGK.	Supplement	al Monitoring Program	<u>∨</u> Water level at tin	ne of dri	ıllıng		
IL TI	Drilli	ng Contractor:		REI	DI	▼ Water level after	drilling	;		
3 WE	Drilli	ng method:		HSA, Mud						
ЛПА ;	Logge		Palmer/F	lart	URS				TIGGT	2000d on £-13
SOLL					<u>OVO</u>				visual	oased on field observations

	t	Piezometer/Well			LOG OF BORING AND WELL CONSTRUCTION DETAIL GWE-5	
	e e	Construction			Completion Coordinates	
	Depth In feet		Q	S	Date: 11/23/11 Northing: N/A	
	Dep	GWE-5 GWE-5 GWE-5	Symbol	nscs	Date: 11/23/11 Casing Elevation: 408.05 (S), 408.20 (M), 408.38 (D) Ground Elevation: 408.47 (S), 408.59 (M), 408.79 (D) Shorthing: N/A Easting: N/A	
		S M D			DESCRIPTION NOTE	S
SOLUTIA 3 WELL TEMPLATE (2012) 21562703.00004 (SOLUTIA 2-2-12).GPJ URSSTLEV.GDT 2/2/12	40 — 45 — 50 — 55 — 6		7 ft b g	SP	Brown to gray, well graded, medium to coarse Water Depth: 25 ft., After ATD hrs.	
\TE (2)		letion Depth:10' et No.:21562	7 ft bgs 703	<u>: </u>	Water Depth: 25 ft., After ATD hrs. Water Depth: 18 ft., After 28 days	
MPLA				upplementa	tal Monitoring Program	
LL TE	Drillin	ng Contractor:		RED	▼ Water level after drilling	
3 WEL	Drillin	ng method:	Н	SA, Mud	Rotary	
UTIA .	Logge	d by: Palm	ner/Ha	rt	USC bas visual ob	ed on field
SOLL					VIII OSC bas visual ob	servations

#i	Piezometer/\	Nell			LOG OF BORING AND WELL CONSTRUCTION DETAIL GWE-5	
In fee	Construction		_		Completion	
Depth In feet	GWE-5 GWE-5 G	GWE-5	Symbol	nscs	Date: 11/23/11 Casing Elevation: 408.05 (S), 408.20 (M), 408.38 (D) Ground Elevation: 408.47 (S), 408.59 (M), 408.79 (D) Ground Elevation: 408.47 (S), 408.59 (M), 408.79 (D)	
	S M	D 	0)		DESCRIPTION NOT	ES
65		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Trace of rounded gravel	
70					With rounded gravel	
75				SP		
80		222222222222222222222222222222222222222				
85		222222222222222222222222222222222222222				
Project Project Drillin	et Name: Sol	21562 lutia W	/GK. S	upplementa RED	Water Depth: 25 ft., After ATD hrs Water Depth: 18 ft., After 28 days ✓ Water level at time of drilling ✓ Water level after drilling	
Drillii Logge	ng method:	Paln	H ner/Ha	sa, www. rt		
	_				USC ba	nsed on field observations

					LOG OF BORING AND WELL CONSTRUCTION DETAIL	
	ğ	Piezomet			GWE-5	
	Depth In feet	GWE-5 GWE M	Symbol	nscs	Coordinates Date: 11/23/11 Casing Elevation: 408.05 (S), 408.20 (M), 408.38 (D) Ground Elevation: 408.47 (S), 408.59 (M), 408.79 (D) DESCRIPTION Coordinates Northing: N/A Easting: N/A	NOTES
SOLUTIA 3 WELL TEMPLATE (2012) 21562703.00004 (SOLUTIA 2-2-12).GPJ URSSTLEV.GDT 2/2/12	100 — 1105 — 1115 —	lation Donals	7 ft bgs	SP	Terminated boring on bedrock surafec at 107' bgs. Installed shallow and midle piezometers at the following depths, Shallow: 28' bgs Medium: 58' bgs and deep monitoring well Deep: 106' bgs	
ATE (letion Depth: et No.:		<u> </u>	Water Depth:25 ft., AfterATD Water Depth:18 ft., After28 day.	nrs. s
MPLA	Projec	nt No.: nt Name		upplements	water Deptil. — It., After 28 day. al Monitoring Program	
L TEN		rt Name: ng Contractor:		RED	-W. 1 1 0 1 m	
WEL		ng method: _		SA, Mud		
-IA 3	Logge		ner/Ha			
SOLUT		•			URS	USC based on field visual observations

Appendix B Groundwater Purging and Sampling Forms



Troll 9000 12/05/11

Low-Flow System ISI Low-Flow Log

Project Information:

Operator Name Michael Corbett
Company Name URS Corporation
Project Name Solutia WGK
Site Name Quarterly Groundwater Sampling - SUPP

Pump Information:

Pump Model/Type Geopump Peristaltic
Tubing Type LDPE
Tubing Diameter 0.19 [in]
Tubing Length 0 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id GWE-1D
Well diameter 1 [in]
Well total depth 129.8 [ft]
Depth to top of screen 119.8 [ft]
Screen length 120 [in]
Depth to Water 30.05 [ft]

Pumping information:

Final pumping rate 300 [mL/min]
Flowcell volume 600 [mL]
Calculated Sample Rate 120 [sec]
Sample rate 120 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-0.1	+/-1	+/-0.2	+/-20
				+/-3 %	+/-10 %	+/-10 %	
	14:18:06	54.71	7.07	2883.05	12.22	0.24	150.30
	14:20:11	54.65	7.03	2934.38	6.43	0.17	149.48
Last 5 Readings	14:22:15	54.86	7.01	2931.55	4.50	0.13	148.16
	14:24:18	54.85	6.99	2951.75	3.47	0.11	146.48
	14:26:23	54.98	6.95	2960.36	1.91	0.09	143.96
	14:22:15	0.20	-0.02	-2.83	-1.92	-0.04	-1.33
Variance in last 3 readings	14:24:18	-0.01	-0.02	20.20	-1.03	-0.02	-1.67
	14:26:23	0.13	-0.04	8.60	-1.56	-0.02	-2.53



Troll 9000 12/06/11

Low-Flow System ISI Low-Flow Log

Project Information:

Operator Name Mike Corbett
Company Name URS Corporation
Project Name Solutia WGK
Site Name Quarterly Groundwater Sampling - SUPP

Pump Information:

Pump Model/Type Geopump Peristaltic
Tubing Type LDPE
Tubing Diameter 0.19 [in]
Tubing Length 0 [ft]
Pump placement from TOC 0 [ft]

Well Information:

 Well Id
 GWE-3D

 Well diameter
 1 [in]

 Well total depth
 117.23 [ft]

 Depth to top of screen
 107.23 [ft]

 Screen length
 120 [in]

 Depth to Water
 27.91 [ft]

Pumping information:

Final pumping rate 400 [mL/min]
Flowcell volume 600 [mL]
Calculated Sample Rate 90 [sec]
Sample rate 120 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-0.1	+/-1	+/-0.2	+/-20
				+/-3 %	+/-10 %	+/-10 %	
	8:54:28	57.92	6.91	2677.16	3.09	-0.02	187.43
	8:56:32	58.00	6.92	2700.04	6.10	-0.03	184.48
Last 5 Readings	8:58:36	57.92	6.95	2720.63	6.43	-0.05	181.82
	9:00:41	58.00	6.94	2734.18	4.81	-0.06	179.13
	9:02:44	58.08	6.92	2745.24	6.05	-0.06	176.78
	8:58:36	-0.08	0.04	20.59	0.32	-0.01	-2.65
Variance in last 3 readings	9:00:41	0.08	-0.02	13.55	-1.62	-0.01	-2.69
	9:02:44	0.08	-0.02	11.05	1.24	-0.01	-2.35



Troll 9000 12/05/11

Low-Flow System ISI Low-Flow Log

Project Info	rmation:
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Operator Name Mike Corbett
Company Name URS Corporation
Project Name Solutia WGK
Site Name Quarterly Groundwater Sampling - SUPP

Pump Information:

Pump Model/Type Proactive SS Monsoon
Tubing Type LDPE
Tubing Diameter 0.19 [in]
Tubing Length 0 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id	GWE-5D
Well diameter	2 [in]
Well total depth	105.43 [ft]
Depth to top of screen	102.93 [ft]
Screen length	60 [in]
Depth to Water	18.26 [ft]

Pumping information:

Final pumping rate	400 [mL/min]
Flowcell volume	600 [mL]
Calculated Sample Rate	90 [sec]
Sample rate	120 [sec]
Stabilized drawdown	0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-0.1	+/-1	+/-0.2	+/-20
				+/-3 %	+/-10 %	+/-10 %	
	11:14:00	60.49	6.79	2279	7.50	-0.20	77.00
	11:18:00	60.48	6.79	2291	7.80	-0.20	76.00
Last 5 Readings	11:22:00	60.42	6.80	2357	5.70	-0.20	76.00
	11:26:00	60.47	6.80	2378	6.50	-0.21	75.00
	11:30:00	60.49	6.80	2385	6.90	-0.21	75.00
	11:22:00	-0.06	0.01	66.00	-2.10	0.00	0.00
Variance in last 3 readings	11:26:00	0.05	0.00	21.00	0.80	-0.01	-1.00
	11:30:00	0.02	0.00	7.00	0.40	0.00	0.00



Troll 9000 12/06/11

Low-Flow System ISI Low-Flow Log

Project Info	rmation:
--------------	----------

Operator Name Michael Corbett
Company Name URS Corporation
Project Name Solutia WGK
Site Name Quarterly Groundwater Sampling - SUPP

Pump Information:

Pump Model/Type Geopump Peristaltic
Tubing Type LDPE
Tubing Diameter 0.19 [in]
Tubing Length 0 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id	GWE-2D
Well diameter	1 [in]
Well total depth	136.69 [ft]
Depth to top of screen	126.69 [ft]
Screen length	120 [in]
Depth to Water	29.93 [ft]

Pumping information:

Final pumping rate 150 [mL/min]
Flowcell volume 600 [mL]
Calculated Sample Rate 240 [sec]
Sample rate 240 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-0.1	+/-1	+/-0.2	+/-20
				+/-3 %	+/-10 %	+/-10 %	
	10:09:35	56.21	6.93	3600.22	6.04	0.74	187.56
	10:13:43	56.09	6.91	3631.37	6.92	0.56	182.77
Last 5 Readings	10:17:53	56.38	6.90	3661.84	11.96	0.42	178.45
	10:22:02	56.45	6.90	3665.09	10.76	0.34	174.72
	10:26:10	56.60	6.89	3677.92	6.10	0.28	171.35
	10:17:53	0.29	-0.01	30.47	5.04	-0.14	-4.32
Variance in last 3 readings	10:22:02	0.07	-0.01	3.25	-1.20	-0.08	-3.72
	10:26:10	0.15	0.00	12.83	-4.66	-0.06	-3.38

Appendix C Chains-of-Custody

Savannah

5102 LaRoche Avenue

Chain of Custody Record



Savannah, GA 31404

phone 912.354.7858 fax 912.352.0165																					TestAmerica Laboratories, Inc.
Client Contact	Project Ma	anager: Da	ve Palmer			Site	Conta	act:]	Nath	an M	cNur	len		Date	: ,	12	151	111			COC No:
URS Corporation	Tel/Fax: (3	14) 743-41	54			Lab	Cont	act:	Lidy	a Gul	izia			Carr	ier:	Ŧ	cal	EX			of COCs
1001 Highlands Plaza Drive West, Suite 300		Analysis T	irnaround	Time				Τ	4		Т	Т		П		T					Job No. 21562722.00001
St. Louis, MO 63110	Calendar	(C) or Wo	rk Days (W)(- [375.4				ŀI								
(314) 429-0100 Phone			from Below _S	Standard					à		1							- 1			21502703.00003 yrc
(314) 429-0462 FAX	1 答	_	weeks					1	fate			1			-	l			ı		SDG No.
Project Name: 4Q11 Supplemental GW Sampling		1	week				6010B	١.	2/Sulfate by	175	-	2			1			- 1			
Site: Solutia WG Krummrich Facility		2	l days			٥		3	5.2	×,	٠, ا	Ę		1				- 1			
PO#]	day				2 G	y 31	y 32	7 8	5 5	F.	5.1	Ì						I	
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs by 8260 Total Fe/Mn by	Alk/CO2 by 310.1	Chloride by	Methane by RSK 175	Nitrate by 353 TOC by 415.1	Dissolved Fe/Mn by 6010B	DOC by 415.1								Sample Specific Notes:
GWE-1D -1311 GWE-1D -F(0.2)-7311 GWE-2D-1211-EB	12/5/11	1435	G	Water	12		3 1	1	1	3	2 1										, , , , , , , , , , , , , , , , , , , ,
GWE-1D -F(0.2)-1311	1	1435	G	Water	2	X						1	1			┸					
GWE-2D-1211-EB	V	1500	6	W	3	Ш	3													1.	
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	Sept of a																			\perp	
-																					
4Q11 SUPP Trip Blank # 2	12/5/11		، جنر ــ	Water	2		2														
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=Na Possible Hazard Identification	OH; 6='Oth	er					2 1	4	1	1	1 3,	1 2	4	2			Ш				<u> 1 </u>
Possible Hazard Identification Non-Hazard Flammable Skin Irritant		n B 🗀	Unknown	. 🗀						sal (o Clid		e maj			e ssec Osal E					taine rchive	d longer than 1 month) For Months
Special Instructions/QC Requirements & Comments: Level 4 E	Pata Packa	ge																_	T-	m	1997-74941 0-2-0°C, 1-4°C
Relinquished by:	Company:	URS		Date/Ti	me:	530	Receiv	ed b	٩٥.	Λ <u>(</u>	√ ^	" O)	C	ompa /	A				Date/Time: 1530
Relinquished by:	Company:			Date/Ti	7. 1	7/3	eceiv	ed b	y: ^ () ()	-	CUI		171	, <u>c</u>	ompa	SY)V			Date/Timfe:
Relinquished by:	Company:			Date/Ti			Receiv	\rightarrow		<u> </u>	1. T	المند	J	: 00		ompa					Date/Time:

Page 34 of 38

Savannah

5102 LaRoche Avenue

Chain of Custody Record



Savannah, GA 31404																					TestAmerica Laboratories, Inc.	
phone 912.354.7858 fax 912.352.0165 Client Contact	Droigot M	anager: Da	ve Polmer			Cito	Cor	ntact:	Noth	on N	AcN,	ırlən		Date	. ,	12/	24	≥2			COC No:	i
		314) 743-41						ntact:						Carr				r Ev			of COCs	l
URS Corporation 1001 Highlands Plaza Drive West, Suite 300		Analysis T		Time		Nau	T	1	T	100	111212		_		``	7		-		_		l
St. Louis, MO 63110		(C) or Wo						-	4						1						21562722.00001	ĺ
(314) 429-0100 Phone		AT if different							33							1					-21562703.00003 PIC	1
(314) 429-0462 FAX			weeks						te b			Æ	3								SDG No.	İ
Project Name: 4Q11 Supplemental GW Sampling		1	week					8	Sulfate by 375.4	2		9	\$		-							ĺ
Site: Solutia WG Krummrich Facility		:	2 days					\$ <u>-</u>	2/8	K 1	ا ا	Į.										ĺ
PO#	1 _	:	l day				۶ I	1 P	325	RS	53.2	<u></u> §										ĺ
]		Filtered Sample	8	Total Fe/Mn by 6010B AB/CO2 by 310.1	, g	Methane by RSK 175	Nitrate by 353.2	FOC by 415.1 Dissalved Pe/Mn by 6010B	DOC by 415.1									l
	Sample	Sample	Sample		#of		3	<u> </u>	i.	han	ate	<u>د</u> کو کو	2 5							-		l
Sample Identification	Date	Time	Туре	Matrix		2	ِ ا	Total	3	Met	Z. E.	عُ اعْ	8							-	Sample Specific Notes:	l
			G	Water	12	_	十	1 1		1		1		H	┪	1			7			
GWE-3D -ni	12/6/11	0910	<u> </u>	water	12	\sqcup	4		╀	3	4			 	-	+	╄		-			l
GWE-3D -F(0.2)-1211		0910	G	Water	2	X						1	1 1									
GWE-3D-1211-AD		0910	6	W	3	:	3										<u> </u>					
GWE-2D-1211		1035	6	W	12		3)))	3	2	1										
GWE-2D-F(0.2)-1211		1035	6	W	2	X						1)									38
GWE-2D-1211-MS		1035	6	W	3	П	3		T									П				Page 35 of 38
GWE-2D-1211-MSD	14	1035		W	3	-	3		1				—	\Box		1		П				35
		700				Ħ	1	\top	1			\top		H	\top	1			1	┪		age
						H	十	\top	+			\dashv	\dagger	\Box	\top	┪						□
						H	1	\dashv	+			+	+	H	\dashv	╫	十	H	1	1		
						╁	1	+	╁			-	+	H	+	-	\vdash	H	+	╁		
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Savannah

5102 LaRoche Avenue

Chain of Custody Record



Page 21 of 23

Savannah, GA 31404

phone 912.354.7858 fax 912.352.0165																						TestAmerica Laboratories, Inc.
Client Contact	Project Ma	nager: Da	ve Palmer			Site Contact: Nathan McNurlen Date:											12/	5/1	,			COC No:
URS Corporation	-	14) 743-41				Lab Contact: Lidya Gulizia									Carrier: Fel Ex							of2_ COCs
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Appendix D Quality Assurance Report

OUALITY ASSURANCE REPORT

Solutia Inc. W.G. Krummrich Facility Sauget, Illinois

Supplemental Groundwater Monitoring Program 4th Quarter 2011 Data Report

Prepared for

Solutia Inc. 575 Maryville Centre Drive St. Louis, MO 63141

January 2012



URS Corporation 1001 Highland Plaza Drive West, Suite 300 St. Louis, MO 63110 (314) 429-0100 Project # 21562703.00004

4Q11 QUALITY ASSURANCE REPORT

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i

1.0 INTRODUCTION

This Quality Assurance Report presents the findings of a review of analytical data for groundwater samples collected in August of 2011 from locations northwest of the Solutia W.G. Krummrich plant, as part of the 4th Quarter 2011 Supplemental Groundwater Monitoring Program. The samples were collected by URS Corporation personnel and analyzed by TestAmerica Laboratories located in Savannah, Georgia using USEPA methods, Standard methods and USEPA SW-846 methodologies. Groundwater samples were tested for volatile organic compounds (VOCs), dissolved gasses, total and dissolved metals, and general chemistry (MNAs).

One hundred percent of the data were subjected to a data quality review (Level III review). Please see **Appendix E** for data reviews. The Level III reviews were performed in order to confirm that the analytical data provided by TestAmerica Savannah were acceptable in quality for their intended use.

A total of 7 groundwater samples (four investigative samples, one field duplicate pair, one MS/MSD pair, and one equipment blank) were analyzed by TestAmerica. In addition, three trip blank sets were included in the coolers that contained groundwater samples for VOC analysis and were analyzed for VOCs by USEPA SW-846 Method 8260B. These samples were analyzed as Sample Delivery Groups (SDG) KPS069 and KPS070 utilizing the following USEPA SW-846 Methods:

- Method 8260B for VOCs (Benzene, Chlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene and 1,4-Dichlorobenzene)
- Method 6010B for total and dissolved iron and manganese

Samples were also analyzed for dissolved gasses and general chemistry parameters by the following methods:

- Method RSK-175 for Dissolved Gasses (Ethane, Ethylene, and Methane)
- USEPA Method 310.1 for Alkalinity and Free Carbon Dioxide
- USEPA Method 325.2 for Chloride
- USEPA Method 353.2 for Nitrogen, Nitrate-Nitrite
- USEPA Method 375.4 for Sulfate
- USEPA Method 415.1 for Total and Dissolved Organic Carbon

Samples were reviewed following procedures outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA 2008) and USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Data



Review, (USEPA 2010) and the Revised Long-Term Monitoring Program (LTMP) Work Plan (Solutia 2009).

The above guidelines provided the criteria to review the data. Additional quantitative criteria are given in the analytical methods. Qualifiers assigned by the data reviewer have been applied to the laboratory report. The qualifiers indicate data that did not meet acceptance criteria and corrective actions were not successful or not performed. The various qualifiers are explained in **Tables 1** and **2** below:

TABLE 1 – Laboratory Data Qualifiers

Lab Qualifier	Definition
U	Analyte was not detected at or above the reporting limit.
*	LCS, LCSD, MS, MSD, MD or surrogate exceeds the control limits.
E	Result exceeded the calibration range, secondary dilution required.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Х	Spike recovery exceeds upper or lower control limits.
F	MS, MSD or RPD exceeds upper or lower control limits.
Р	The difference between the results of the two GC columns is greater than 40%
Н	Sample was prepped or analyzed beyond the specified holding time.
В	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

TABLE 2 - URS Data Qualifiers

URS Qualifier	Definition
U	The analyte was analyzed for but was not detected.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy, precision, and representativeness



(based on MS/MSD, LCS, surrogate compounds and field duplicate results) were achieved for this data set, except where noted in this report. In addition, analytical completeness, defined as the percentage of analytical results that are judged to be valid, including estimated detect/non-detect (**J/UJ**) data was 100 percent, which meets the completeness goal of 95 percent.

The data review included evaluation of the following criteria:

Organics

- Receipt condition and sample holding times
- Laboratory method blanks, field equipment blanks and trip blank samples
- Surrogate spike recoveries
- Laboratory control sample (LCS) recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) sample recoveries and relative percent difference (RPD) values
- Field duplicate results
- Results reported from dilutions
- Internal standard responses

Inorganics/General chemistry

- Receipt condition and sample holding times
- Laboratory method blank and field equipment blank samples
- LCS recoveries
- MS/MSD sample recoveries and matrix duplicate RPD values
- Field duplicate and laboratory duplicate results
- Results reported from dilutions

The following sections present the results of the data review.

2.0 RECEIPT CONDITION AND SAMPLE HOLDING TIMES

Sample holding time requirements for the analyses performed are presented in the methods and/or in the data review guidelines. Review of the sample collection, extraction and analysis dates involved comparing the chain-of-custody and the laboratory data summary forms for accuracy, consistency, and holding time compliance.



Upon review of the KPS069 data, the cooler receipt form indicated one of two coolers was received by the laboratory at 1.4°C which was outside the 4°C ± 2°C criteria. The samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form indicated MS/MSD analyses for sample GWE-5D-1211 were cancelled by URS; however the laboratory completed MS/MSD analyses for chloride, sulfate, and total organic carbon as sufficient sample volume was available for these analyses.

Upon review of the KPS070 data, the cooler receipt form indicated two of three coolers were received by the laboratory at 1.4°C which is outside the 4°C ± 2°C criteria. The samples were received in good condition; therefore, no qualification of data was required.

3.0 TRIP BLANKS, LABORATORY METHOD BLANK AND EQUIPMENT BLANK SAMPLES

Trip blank samples are used to assess VOC cross contamination of samples during shipment to the laboratory. Trip blanks were submitted with each cooler shipped containing samples for VOC analyses for a total of three trip blank sample sets. All associated samples were non-detect; therefore, no qualification of data was required.

Laboratory method blank samples evaluate the existence and magnitude of contamination problems resulting from laboratory activities. All laboratory method blank samples were analyzed at the method prescribed frequencies. Method blank samples were non-detect.

Equipment blank samples are used to assess the effectiveness of equipment decontamination procedures. Equipment blank samples were non-detect.

4.0 SURROGATE SPIKE RECOVERIES

Surrogate compounds are used to evaluate overall laboratory performance for sample preparation efficiency on a per sample basis. Samples analyzed for VOCs were spiked with surrogate compounds during sample preparation. USEPA National Functional Guidelines for Superfund Organic Methods Data Review state how data is qualified, if surrogate spike recoveries do not meet acceptance criteria.

Groundwater surrogate recoveries were within evaluation criteria; therefore, no qualification of data was required.

5.0 LABORATORY CONTROL SAMPLE RECOVERIES

Groundwater laboratory control samples (LCS) are analyzed with each analytical batch to assess the accuracy of the analytical process. LCS recoveries were within evaluation criteria. No qualification of data was required.



6.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) SAMPLES

MS/MSD samples are analyzed to assess the accuracy and precision of the analytical process on an analytical sample in a particular matrix. MS/MSD samples were required to be collected at a frequency of one per 20 investigative samples in accordance with the work plan. URS Corporation submitted one MS/MSD sample set for 7 investigative samples meeting the work plan frequency requirement.

No data qualifications were required if MS/MSD recoveries alone were outside evaluation criteria due to matrix interference or if sample concentrations were greater than four times (4X) the matrix spike concentrations.

Groundwater samples spiked and analyzed as MS/MSDs and their respective recoveries are discussed further in **Appendix D**. No qualification of data was required.

7.0 FIELD DUPLICATE RESULTS

Field duplicate results are used to evaluate precision of the entire data collection activity, including sampling, analysis and site heterogeneity. When results for both duplicate and sample values are greater than five times the practical quantitation limit (PQL), satisfactory precision is indicated by an RPD less than or equal to 25 percent for aqueous samples. Where one or both of the results of a field duplicate pair are reported at less than five times the PQL, satisfactory precision is indicated if the field duplicate results agree within 2 times the quantitation limit. Field duplicate results that do not meet these criteria may indicate unsatisfactory precision of the results.

One pair of field duplicate samples were collected for the five investigative groundwater samples. This satisfies the requirement in the work plan (one per 10 investigative samples or 10 percent). Groundwater field duplicate RPDs were within evaluation criteria; therefore, no qualification of data was required.

8.0 INTERNAL STANDARD RESPONSES

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during each analytical run. IS areas must be within -50 percent to +100 percent for VOCs.

The internal standards area responses for VOCs were verified for the data review. VOC IS responses met the criteria as described above for all groundwater samples. No qualification of data was required.



9.0 RESULTS REPORTED FROM DILUTIONS

VOC, chloride, and sulfate results for groundwater samples were diluted when high levels of target analytes were present. The diluted sample results for these analytes were reported for the associated samples.



Appendix E Groundwater Analytical Results (with Data Review Reports)

Supplemental Groundwater Monitoring Program 4Q 2011 Data Review

Laboratory SDG: KPS069

Data Reviewer: Melissa Mansker Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 1/5/2012

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008. USEPA National Functional Guidelines for Superfund

Inorganic Data Review 2010

Work Plan: Revised Long-Term Monitoring Program (LTMP) Work Plan (Solutia

2009)

Sample Ide	entification
GWE-5D-1211	GWE-5D-F(0.2)-1211
4Q11 SUPP Trip Blank #1	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated MS/MSD recoveries for sulfate in sample GWE-5D-1211 could not be evaluated because sample concentrations were greater than four times (4X) the matrix spike concentrations. Although not indicated in the laboratory case narrative, samples were diluted due to high levels of target analytes. Sample GWE-5D-1211 was diluted and re-analyzed to bring chlorobenzene within the calibration range of the instrument. Results for chlorobenzene were reported from the re-analysis runs and the remaining compounds were reported from the original analyses. These issues are discussed further in the appropriate sections below.

The cooler receipt form indicated one of two coolers was received by the laboratory at 1.4°C which was outside the 4°C ± 2°C temperature criteria. Samples were received in good condition; therefore, no qualification of data was required. Additionally, the cooler receipt form indicated MS/MSD analyses for sample GWE-5D-1211 were cancelled by URS; however the laboratory completed MS/MSD analyses for chloride, sulfate, and total organic carbon since sufficient sample volume was available for these analyses.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes, although MS/MSD analysis was cancelled by URS, sample GWE-5D-1211 was spiked and analyzed for chloride, sulfate, and total organic carbon since sufficient sample volume was available to complete these analyses.

Were MS/MSD recoveries within evaluation criteria?

No, however MS/MSD recoveries for sulfate in sample GWE-5D-1211 could not be evaluated because sample concentrations were greater than four times (4X) the matrix spike concentrations. No qualification of data was required.

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery (%)	RPD	MS/MSD/ RPD Criteria
GWE-5D-1211	General chemistry	Sulfate	NA/NA	3	75-125/30

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

4Q11 DATA REVIEW SDG KPS069

12.0 Additional Qualifications

Were additional qualifications applied?

No

Supplemental Groundwater Monitoring Program 4Q 2011 Data Review

Laboratory SDG: KPS070

Data Reviewer: Melissa Mansker Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 1/5/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008. USEPA National Functional Guidelines for Superfund

Inorganic Data Review 2010

Work Plan: Revised Long-Term Monitoring Program (LTMP) Work Plan (Solutia

2009)

Sample Identification		
GWE-1D-1211	GWE-1D-F(0.2)-1211	
GWE-2D-1211-EB	4Q11 SUPP Trip Blank #2	
GWE-3D-1211	GWE-3D-F(0.2)-1211	
GWE-3D-1211-AD	GWE-2D-1211	
GWE-2D-F(0.2)-1211	4Q11 SUPP Trip Blank #3	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Although not indicated in the laboratory case narrative, several samples were diluted due to high levels of target analytes. This issue is discussed further in the appropriate section below.

The cooler receipt form indicated two of three coolers were received by the laboratory at 1.4°C which is outside the 4°C ± 2°C criteria. The samples were received in good condition; therefore, no qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples analyzed as part of this SDG?

Yes, sample GWE-2D-1211 was spiked and analyzed for VOCs.

Were MS/MSD recoveries within evaluation criteria?

Yes

8.0 Internal Standard (IS) Recoveries

Were internal standard area recoveries within evaluation criteria?

Yes

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples analyzed as part of this SDG?

No

10.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
GWE-3D-1211	GWE-3D-1211-AD

Were field duplicate sample RPDs within evaluation criteria?

Yes

11.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported? Not applicable; analytes were detected in samples that were diluted.

12.0 Additional Qualifications

Were additional qualifications applied?

No

SDG KPS069

Results of Sample from Monitoring Well:

GWE-5D

..... LINKS Review your project results through Total Access Have a Ouestion? The

Visit us at:

www.testamericainc.com

<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-74941-1

TestAmerica Sample Delivery Group: KPS069

Client Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-

5D)

For:

Solutia Inc. 575 Maryville Centre Dr. Saint Louis, Missouri 63141

Attn: Mr. Jerry Rinaldi

Lideja Julizia

Authorized for release by: 1/4/2012 5:28:11 PM

Lidya Gulizia Project Manager II lidya.gulizia@testamericainc.com

cc: Bob Billman

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Reviewed on or My

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Job ID: 680-74941-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative 680-74941-1

Receipt

All samples were received in good condition within temperature requirements.

The client submitted matrix spike and matrix spike duplicate (MS/MSD) samples for the project sample and cancelled these analyses following lab receipt, however, some analysis parameters were initiated prior to the cancellation where the MS/MSD were utilized for the batch QC. These data have been reported where available to satisfy laboratory batch QC requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

Method(s) RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 223685 were outside control limits for Methane. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 223650 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 375.4: The matrix spike(MS) recoveries for batch 223003 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Comments

No additional comments.

JAN 0 5 2012

TestAmerica Savannah

Page 3 of 23

Sample Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-74941-1	GWE-5D-1211	Water	12/05/11 11:40	12/06/11 11:07
680-74941-2	GWE-5D-F(0.2)-1211	Water	12/05/11 11:40	12/06/11 11:07
680-74941-3	4Q11 SUPP Trip Blank #1	Water	12/05/11 00:00	12/06/11 11:07



JAN 0 5 2012

Method Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method	Method Description	Protocol	Laboratory
82608	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
60108	Metals (ICP)	SW846	TAL SAV
310.1	Alkalinity	MCAWW	TAL SAV
325.2	Chloride	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
375.4	Sulfate	MCAWW	TAL SAV
415.1	TOC	MCAWW	TAL SAV
415.1	DOC	MCAWW	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

JAN 0 5 2012

Definitions/Glossary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

Qualifier Description

Toxicity Equivalent Quotient (Dioxin)

Indicates the analyte was analyzed for but not detected.

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Qualifiers	
GC/MS VOA	
Qualifier	Qualifier Description
E	Result exceeded calibration range,
U	Indicates the analyte was analyzed for but not detected.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
GC VOA	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Metals Qualifier

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not
	applicable.

Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
₩	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

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JAN 0 5 2012

Detection Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

lient Sample ID: GWE-5D	1211					La	ab	Sample IE): 680 -7494 1-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	53		1.0		ug/L		_	8260B	Total/NA
Chlorobenzene	2000	E	1.0		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	17		1.0		ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	3.9		1.0		ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	110		1.0		ug/L	1		8260B	Total/NA
Benzene - DL	51	D	20		ug/L	20		8260B	Total/NA
Chlorobenzene - DL	1600	D	20		ug/L	20		8260B	Total/NA
1,4-Dichlorobenzene - DL	96	D	20		ug/L	20		8260B	Total/NA
Methane	58		0.58		ug/L	1		RSK-175	Total/NA
Iron	13		0.050		mg/L	1		6010B	Total Recove
Manganese	0.39		0.010		mg/L	1		6010B	Total Recove
Chloride	89		2.0		mg/L	2		325.2	Total/NA
Sulfate	280		50		mg/L	10		375.4	Total/NA
Total Organic Carbon	16		1.0		mg/L	1		415.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	400		5.0		mg/L		_	310.1	Total/NA
Carbon Dioxide, Free	33		5.0		mg/L	1		310.1	Total/NA
lient Sample ID: GWE-5D-	F(0.2)-1211					La	b	Sample ID): 680-74941 - :
Analyte	Result	Qualifier	RL	MDL	Unit	Díl Fac	D	Method	Ргер Туре
ron, Dissolved			0.050		mg/L	1		6010B	Dissolved
Manganese, Dissolved	0,42		0.010		mg/L	1		6010B	Dissolved
Dissolved Organic Carbon	16		1.0		mg/L	1		415.1	Dissolved

No Detections

JAN 0 5 2012

SDG: KPS069

Lab Sample ID: 680-74941-1 Client Sample ID: GWE-5D-1211

Date Collected: 12/05/11 11:40

Matrix: Water

Date Received: 12/05/11 11:07 * Do not use this deuta. Use all other data.

Analyte	Result	Qualifier	RL	MDL	Ųnit	D	Prepared	Analyzed	Dil F
Benzene	53		1.0		ug/L			12/16/11 01:21	
Ghlorobenzene	2000	E	1:0		ug/L			12/16/11 01:21	
1,2-Dichlorobenzene	17		1.0		ug/L			12/16/11 01:21	
1,3-Dichlorobenzene	3.9		1.0		ug/L			12/16/11 01:21	
1,4-Dichlorobenzene	110		1.0		ug/L			12/16/11 01:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene	84		70 - 130					12/16/11 01:21	
Dibromofluoromethane	84		70 ₋ 1 3 0					12/16/11 01:21	
Toluene-d8 (Surr)	110	, ,	70_130	,		,	10	12/16/11 01:21	
¥ しらと ゼ Method: 8260B - Volatile Org	hese results ganic Compounds	only. All (GC/MS) - DL	other do	ata u	rie S	reporte	d from	the 1.0x0	l lu
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Benzene	51	D			ug/L			12/19/11 17:39	
Chlorobenzene	1600	D	20		ug/L		-	12/19/11 17:39	
1,2-Dichlorobenzene	20	U	20		ug/L			12/19/11 17:39	
1,3-Dichlorobenzene	20	U	20		ug/L			12/19/11 17: 39	
1,4-Dichlorobenzene	96	D	20		ug/L	•		12/19/11 17:39	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil I
4-Bromofluorobenzene	95		70 - 130					12/19/11 17:39	
Dibromofluoromethane	85		70 - 130					12/19/11 17:39	
Taluana de (Cura)	111		70 - 130					12/19/11 17:39	
Toluene-d8 (Surr)	• • • • • • • • • • • • • • • • • • • •		70 - 700						
Method: RSK-175 - Dissolved			701700						
	d Gases (GC)	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Method: RSK-175 - Dissolved Analyte	d Gases (GC)	Qualifier U		MDL	Unit ug/L	<u>D</u>	Prepared	Analyzed 12/14/11 23:22	Dil F
Method: RSK-175 - Dissolved	d Gases (GC)	U	RL	MDL		<u>D</u>	Prepared		
Method: RSK-175 - Dissolved Analyte Ethane Ethylene	d Gases (GC) Result 1.1	U	RL 1.1	MDL	ug/L	<u>D</u>	Prepared	12/14/11 23:22	Dil F
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane	d Gases (GC) Result 1.1 1.0 58	U U	RL 1.1 1.0	MDL	ug/L ug/L	<u>D</u>	Prepared	12/14/11 23:22 12/14/11 23:22	Dil F
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane Method: 6010B - Metals (ICP)	d Gases (GC) Result 1.1 1.0 58	U U	RL 1.1 1.0	MDL	ug/L ug/L ug/L	<u>D</u>	Prepared Prepared	12/14/11 23:22 12/14/11 23:22	Dil F
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane Method: 6010B - Metals (ICP Analyte	d Gases (GC) Result 1.1 1.0 58	U U	RL 1.1 1.0 0.58		ug/L ug/L ug/L			12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed	
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane Method: 6010B - Metals (ICP) Analyte	d Gases (GC) Result 1.1 1.0 58) - Total Recoverat	U U	RL 1.1 1.0 0.58		ug/L ug/L ug/L Unit		Prepared	12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed	
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane Method: 6010B - Metals (ICP) Analyte Iron Manganese	d Gases (GC) Result 1.1 1.0 58) - Total Recoverab Result 13 0.39	U U ole Qualifier	RL 1.1 1.0 0.58 RL 0.050		ug/L ug/L ug/L Unit mg/L		Prepared 12/07/11 09:59	12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed	
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane Method: 6010B - Metals (ICP) Analyte Iron Manganese General Chemistry	d Gases (GC) Result 1.1 1.0 58) - Total Recoverab Result 13 0.39	U U	RL 1.1 1.0 0.58 RL 0.050 0.010		ug/L ug/L ug/L Unit mg/L mg/L		Prepared 12/07/11 09:59	12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed	Dil F
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane Method: 6010B - Metals (ICP) Analyte Iron Manganese General Chemistry Analyte	d Gases (GC) Result 1.1 1.0 58) - Total Recoverab Result 13 0.39	U U ole Qualifier	RL 1.1 1.0 0.58 RL 0.050 0.010	MDL	ug/L ug/L ug/L Unit mg/L mg/L		Prepared 12/07/11 09:59 12/07/11 09:59	12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed 12/08/11 05:10 12/08/11 05:10	Dii F
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane Method: 6010B - Metals (ICP) Analyte Iron Manganese General Chemistry Analyte Chloride	d Gases (GC) Result 1.1 1.0 58) - Total Recoverate Result 13 0.39 Result	U U Qualifier Qualifier	RL 1.1 1.0 0.58 RL 0.050 0.010	MDL	ug/L ug/L ug/L Unit mg/L mg/L		Prepared 12/07/11 09:59 12/07/11 09:59	12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed 12/08/11 05:10 12/08/11 05:10	Dil F
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane Method: 6010B - Metals (ICP) Analyte Iron Manganese General Chemistry Analyte Chloride Nitrate as N	d Gases (GC) Result 1.1 1.0 58) - Total Recoverate Result 13 0.39 Result 89	U U Qualifier Qualifier	RL 1.1 1.0 0.58 RL 0.050 0.010	MDL	ug/L ug/L ug/L Unit mg/L unit mg/L		Prepared 12/07/11 09:59 12/07/11 09:59	12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed 12/08/11 05:10 12/08/11 05:10 Analyzed	Dil F
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Method: 6010B - Metals (ICP) Analyte Iron Manganese General Chemistry Analyte Chloride Nitrate as N Sulfate	d Gases (GC) Result 1.1 1.0 58) - Total Recoverate Result 13 0.39 Result 89 0.050	U U Qualifier Qualifier	RL 1.1 1.0 0.58 RL 0.050 0.010	MDL	ug/L ug/L ug/L Unit mg/L mg/L Unit mg/L		Prepared 12/07/11 09:59 12/07/11 09:59	12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed 12/08/11 05:10 Analyzed 12/29/11 10:19 12/06/11 15:49	Dil F
Method: RSK-175 - Dissolved Analyte Ethane Ethylene Methane Method: 6010B - Metals (ICP) Analyte Iron Manganese General Chemistry Analyte Chloride Nitrate as N Sulfate Total Organic Carbon	d Gases (GC) Result 1.1 1.0 58) - Total Recoverate Result 13 0.39 Result 89 0.050 280 16	U U Qualifier Qualifier	RL 1.1 1.0 0.58 RL 0.050 0.010 RL 2.0 0.050 50	MDL	ug/L ug/L ug/L Unit mg/L mg/L dunit mg/L mg/L mg/L mg/L		Prepared 12/07/11 09:59 12/07/11 09:59	12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed 12/08/11 05:10 Analyzed 12/29/11 10:19 12/06/11 15:49 12/08/11 12:39	Dil F
Method: RSK-175 - Dissolved Analyte Ethan <i>e</i>	d Gases (GC) Result 1.1 1.0 58) - Total Recoverate Result 13 0.39 Result 89 0.050 280 16	U U Ole Qualifier Qualifier	RL 1.1 1.0 0.58 RL 0.050 0.010 RL 2.0 0.050 50 1.0	MDL	ug/L ug/L ug/L Unit mg/L mg/L mg/L mg/L mg/L		Prepared 12/07/11 09:59 12/07/11 09:59 Prepared	12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 12/14/11 23:22 Analyzed 12/08/11 05:10 12/08/11 05:10 Analyzed 12/29/11 10:19 12/06/11 15:49 12/08/11 12:39 12/27/11 14:14	Dil F

TestAmerica Savannah

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Client Sample Results

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Client Sample ID: GWE-5D-F(0.2)-1211

Date Collected: 12/05/11 11:40 Date Received: 12/06/11 11:07 Lab Sample ID: 680-74941-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	14		0.050		mg/L		12/07/11 09:59	12/08/11 05:05	1
Manganese, Dissolved	0.42		0,010		mg/L		12/07/11 09:59	12/08/11 05:05	1
General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	16		1.0		mg/L			12/15/11 18:27	1

JAN 0 5 2012 MM

Client Sample Results

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Client Sample ID: 4Q11 SUPP Trip Blank #1 Lab Sample ID: 680-74941-3

Date Collected: 12/05/11 00:00

Matrix: Water

Date Received: 12/06/11 11:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1,0	U	1.0		ug/L			12/15/11 21:58	1
Chlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:58	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:58	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:58	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	DII Fac
4-Bromofluorobenzene	92		70 - 130			-		12/15/11 21:58	
Dibromofluoromethane	92		70 - 130					12/15/11 21:58	1
Toluene-d8 (Surr)	109		70.130					12/15/11 21:58	1

JAN 0 5 2012

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

				Percent Surr
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
680-74941-1	GWE-5D-1211	84	84	110
680-74941-1 - DL	GWE-5D-1211	95	85	111
680-74941-3	4Q11 SUPP Trip Blank #1	92	92	109
LC\$ 680-223910/4	Lab Control Sample	105	96	104
LCS 680-224057/4	Lab Control Sample	105	97	104
LCSD 680-223910/5	Lab Control Sample Dup	104	96	103
LCSD 680-224057/5	Lab Control Sample Dup	109	102	105
MB 680-223910/7	Method Blank	94	88	109
MB 680-224057/8	Method Blank	97	92	109

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

TestAmerica Savannah

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-223910/7

Matrix: Water

Analyte

Benzene

Chlorobenzene

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

Analysis Batch: 223910

Client Sample ID: Method Blank	
Prep Type: Total/NA	

мв мв Result Qualifier RL MDL Unit Prepared Analyzed Dil Faç 1.0 U 1.0 ug/L 12/15/11 21:36 1.0 U 12/15/11 21:36 1.0 ug/L 1 1.0 U 1.0 12/15/11 21:36 ug/L 1 1.0 U 1.0 ug/L 12/15/11 21:36 1.0 U 1.0 ug/L 12/15/11 21:36

		мв	MB				
-	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene	94		70 - 130		12/15/11 21:36	1
Ì	Dibromofluoromethane	88		70 - 130		12/15/11 21:36	1
	Toluene-d8 (Surr)	109		70 - 130		12/15/11 21:36	1



Lab Sample ID: LCS 680-223910/4

Matrix: Water

Analysis Batch: 223910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LC\$		%Rec.
Analyte	Added	Result	Qualifier Unit	D %Rec	Limits
Benzene	50.0	52.3	ug/L	. 105	70.130
Chlorobenzene	50.0	51.0	ug/L	. 102	70 - 130
1,2-Dichlorobenzene	50.0	53.8	ug/L	. 108	70 - 130
1,3-Dichlorobenzene	50.0	52.7	ug/L	. 105	70 _ 130
1,4-Dichlorobenzene	50.0	52.5	ug/L	. 105	70 - 130
<u>.</u>					

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	104		70 ₋ 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 223910

Matrix: Water

Lab Sample ID: LCSD 680-223910/5

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	50.0	51.4		ug/L		103	70 - 130	2	30
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130	1	30
1,2-Dichlorobenzene	50.0	53.0		ug/L		106	70 - 130	1	30
1,3-Dichlorobenzene	50.0	51.6		ug/L		103	70 - 130	2	30
1,4-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 130	1	30

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 224057

Lab Sample ID: MB 680-224057/8

ŀ		MB	MB							
i	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
İ	Benzene	1.0	Ü	1.0		ug/L			12/19/11 12:53	1

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

12/19/11 12:53

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

SDG: KPS069

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

1,0 U

Lab Sample ID: MB 680-224057/8 Client Sample ID: Method Blank Prep Type: Total/NA Matrix: Water

1,4-Dichlorobenzene

Analyte Chlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene

Analysis Batch: 224057

МВ	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.0	U	1.0		ug/L			12/19/11 12:53	1
1.0	U	1,0		ug/L			12/19/11 12:53	1
1.0	U	1.0		ug/L			12/19/11 12:53	1

ug/L

MB MB Analyzed DII Fac Surrogate %Recovery Qualifier Limits Prepared 97 70 - 130 12/19/11 12:53 4-Bromofluorobenzene

1.0

12/19/11 12:53 70 - 130 Dibromofluoromethane 92 12/19/11 12:53 Toluene-d8 (Suπ) 109 70 - 130

Matrix: Water Analysis Batch: 224057

Lab Sample ID: LCS 680-224057/4

7 mary 5.5 - 4 mary 11 - 1 - 1 - 1						
	Spike	LCS	LCS		%Rec.	
Analyte	Added	Result	Qualifier Unit	D %Rec	Limits	
Benzene	50.0	52.7	ug/L	105	70 - 130	
Chlorobenzene	50.0	49.1	ug/L	98	70 ₋ 130	
1,2-Dichlorobenzene	50,0	51.2	ug/L	102	70 _ 130	
1,3-Dichlorobenzene	50.0	50.3	սց/Լ	101	70 _ 130	
1,4-Dichlorobenzene	50.0	50.2	ug/L	100	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 105 70 - 130 Dibromofluoromethane 97 70 - 130 Toluene-d8 (Surr) 104 70.130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 680-224057/5 Matrix: Water Prep Type: Total/NA

Analysis Batch: 224057

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	50,0	54.1		ug/L		108	70 _ 130	3	30
Chlorobenzene	50.0	51.4		ug/L		103	70.130	5	30
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	70 - 130	3	30
1,3-Dichlorobenzene	50.0	52.3		ug/L		105	70 ₋ 130	4	30
1,4-Dichlorobenzene	50.0	51.4		ug/L		103	70 _ 130	2	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	109		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Sum)	105		70 - 130

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method:	RSK-175 -	Dissolved	Gases ((GC)
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Lab Sample ID: MB 680-223685/1 Client Sample ID: Method Blank
Matrix: Water Prep Type: Total/NA

Analysis Batch: 223685

	_	MB	MB							
i	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Ethane	1.1	U	1.1		ug/L			12/14/11 21:36	1
	Ethylene	1.0	U	1.0		ug/L			12/14/11 21:36	1
	Methane	0.58	U	0.58		ug/L			12/14/11 21:36	1

Lab Sample ID: LCS 680-223685/3

Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analysis Batch: 223685

Alleigala Datoli. EE0000								
	Spike	LC\$	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethane	282	263		ug/L	_	93	75 _ 125	
Ethylene	271	256		ug/L		94	75.125	
Methane	153	147		ug/L		96	75 - 125	

Lab Sample ID: LCSD 680-223685/4
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA

173

ug/L

113

75 - 125

16

Prep Batch: 222847

30

Analysis Batch: 223685 LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Ethane 282 312 ug/L 111 75 - 125 17 30 Ethylene 271 297 ug/L 110 75 - 125 30 15

153

Method: 6010B - Metals (ICP)

Methane

Lab Sample ID: MB 680-222847/1-A Client Sample ID: Method Blank
Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 222959

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.050	U	0.050		mg/L		12/07/11 09:59	12/08/11 03:09	1
Iron, Dissolved	0.050	υ	0.050		mg/L		12/07/11 09:59	12/08/11 03:09	1
Manganese	0,010	υ	0.010		mg/L		12/07/11 09:59	12/08/11 03:09	1
Manganese, Dissolved	0.010	U	0.010		mg/L		12/07/11 09:59	12/08/11 03:09	1

Lab Sample ID: LCS 680-222847/2-A

Client Sample ID: Lab Control Sample
Matrix: Water

Analysis Batch: 222959

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 222847

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits	
Iron	1.00	0,929	n	ng/L	93	75 - 125	
Iron, Dissolved	1.00	0.929	n	ng/L	93	75 - 125	
Manganese	0.500	0.472	a	ng/L	94	75 - 125	
Manganese, Dissolved	0.500	0.472	a	ng/L	94	75 - 125	

JAN 0 5 2012

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method: 310.1 - Alkalinity															
Lab Sample ID: MB 680-222831/5											C	lient S	ample ID: I	Method	Blank
Matrix: Water													Prep T	ype: To	tal/NA
Analysis Batch: 222831															
		MB	MB												
Analyte	R		Qualifier		RL		RL	Unit		D _	Pre	pared	Analyz		Dil Fac
Alkalinity		5.0	U		5.0			mg/L					12/06/11	18:02	1
Carbon Dioxide, Free		5.0	υ		5.0			mg/L					12/06/11	18:02	1
Lab Sample ID: LCS 680-222831/6										Cli	ent S	Sample	ID: Lab Co		
Matrix: Water													Prep T	ype: To	tal/NA
Analysis Batch: 222831								_							
				Spike		LCS							%Rec.		
Analyte				Added		Result	Qua	alifier	Unit		- <u>D</u>	%Rec	Limits		
Alkalinity 				183		176			mg/L			96	80 . 120		
Lab Sample ID: LCSD 680-222831/1	19								Cli	ient S	amp	le ID: L	ab Contro		-
Matrix: Water													Prep T	/pe: To	tal/NA
Analysis Batch: 222831															
				Spike		LCSD					_		%Rec.		RPD
Analyte				Added		Result	Qua	alifier	Unit		_ D	%Rec	Limits	RPD	Limit
Alkalinity				183		163			mg/L			89	80 _ 120	8	30
Method: 325.2 - Chloride Lab Sample ID: MB 680-224981/35												lient Sa	ample ID: !		
		мв	MB	-							C	lient Sa	ample ID: I Prep Ty		
Lab Sample ID: MB 680-224981/35 Matrix: Water	Re		MB Qualifier	-	RL		DL	Unit		D		lient Sa		/pe: To	
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981	Re		Qualifier		RL 1.0	м		Unit mg/L		D			Prep Ty	ype: To	tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2	Re	esult	Qualifier			M					Pre	pared	Analyzo 12/29/11 1	ype: To	Dil Fac 1
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water	Re	esult	Qualifier			M					Pre	pared	Analyz:	ype: To	Dil Fac 1
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2	Re	esult	Qualifier				_	mg/L			Pre	pared	Analyz 12/29/11 1 ID: Lab Co Prep Ty	ype: To	Dil Fac 1
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981	Ré	esult	Qualifier	Spike		LCS	LCS	mg/L			Pre ent S	pared Sample	Analyz 12/29/11 1 ID: Lab Co Prep Ty %Rec.	ype: To	Dil Fac 1
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte	Re	esult	Qualifier	Added		LCS Result	LCS	mg/L	Unit		Pre	pared Sample %Rec	Analyz 12/29/11 1 ID: Lab Co Prep Ty %Rec. Limits	ype: To	Dil Fac 1
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981	Re	esult	Qualifier	•		LCS	LCS	mg/L	Unit mg/L		Pre ent S	pared Sample	Analyz 12/29/11 1 ID: Lab Co Prep Ty %Rec.	ype: To	Dil Fac 1
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS	Re	esult	Qualifier	Added		LCS Result	LCS	mg/L			Pre ent S	eample **Rec 103	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty Rec. Limits 85 - 115	ype: To ed il:05 entrol S ype: To	Dil Fac 1 ample tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chtoride Lab Sample ID: 680-74941-1 MS Matrix: Water	Re	esult	Qualifier	Added		LCS Result	LCS	mg/L			Pre ent S	eample **Rec 103	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty Rec. Limits 85 - 115	ype: To ed il:05 entrol S ype: To	Dil Fac 1 ample tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS		1.0	Qualifier U	Added 50.0		LCS Result 51.3	LCS Qua	mg/L S alifier			Pre ent S	eample **Rec 103	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty %Rec. Limits 85 - 115 ample ID: 0 Prep Ty	ype: To ed il:05 entrol S ype: To	Dil Fac 1 ample tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chtoride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981	Sample	1.0	Qualifier U	Added 50.0 Spike		LCS Result 51.3	LCS Qua	mg/L S alifier	mg/L		Pre	Sample *Rec 103	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty %Rec. Limits 85 - 115 ample ID: 0 Prep Ty %Rec.	ype: To ed il:05 entrol S ype: To	Dil Fac 1 ample tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Analyte	Sample Result	1.0	Qualifier U	50.0 Spike Added		LCS Result 51.3 MS Result	LCS Qua	mg/L S alifier	mg/L Unit		Pre ent S	%Rec 103	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty Rec. Limits 85 - 115 ample ID: 0 Prep Ty Rec. Limits	ype: To ed il:05 entrol S ype: To	Dil Fac 1 ample tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chtoride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981	Sample	1.0	Qualifier U	Added 50.0 Spike		LCS Result 51.3	LCS Qua	mg/L S alifier	mg/L		Pre	Sample *Rec 103	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty %Rec. Limits 85 - 115 ample ID: 0 Prep Ty %Rec.	ype: To ed il:05 entrol S ype: To	Dil Fac 1 ample tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Analyte	Sample Result	1.0	Qualifier U	50.0 Spike Added		LCS Result 51.3 MS Result	LCS Qua	mg/L S alifier	mg/L Unit		Pre	%Rec 103 lient Sa %Rec 89	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty Rec. Limits 85 - 115 ample ID: 0 Prep Ty Rec. Limits	ed 11:05 entrol S ype: To	Dil Fac 1 ample tal/NA D-1211 tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Chloride Analyte Chloride	Sample Result	1.0	Qualifier U	50.0 Spike Added		LCS Result 51.3 MS Result	LCS Qua	mg/L S alifier	mg/L Unit		Pre	%Rec 103 lient Sa %Rec 89	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty %Rec. Limits 85 - 115 %Rec. Limits 85 - 115	ontrol S pe: To swe-5[pe: To	Dil Fac 1 ample tal/NA 0-1211 tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981	Sample Result	1.0	Qualifier U	50.0 Spike Added		LCS Result 51.3 MS Result 134	LCS Qua MS Qua	mg/L S alifier	mg/L Unit		Pre	%Rec 103 lient Sa %Rec 89	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty Rec. Limits 85 - 115 Ample ID: C Prep Ty Rec. Limits 85 - 115	ontrol S pe: To swe-5[pe: To	Dil Fac 1 ample tal/NA 0-1211 tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analyte Chloride Lab Sample ID: 680-74941-1 MSD Matrix: Water	Sample Result	Samp Qual	Qualifier U	50.0 Spike Added		LCS Result 51.3 MS Result	LCS Qua MS Qua	mg/L S alifier	mg/L Unit		Pre	%Rec 103 lient Sa %Rec 89	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty Rec. Limits 85 - 115 Ample ID: C Prep Ty Rec. Limits 85 - 115	ontrol S pe: To swe-5[pe: To	Dil Fac 1 ample tal/NA 0-1211 tal/NA
Lab Sample ID: MB 680-224981/35 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: LCS 680-224981/2 Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analysis Batch: 224981 Analyte Chloride Lab Sample ID: 680-74941-1 MS Matrix: Water Analyte Chloride Lab Sample ID: 680-74941-1 MSD Matrix: Water	Sample Result 89	Samı Quali	Qualifier U	Spike Added 50.0		LCS Result 51.3 MS Result 134	MS Qua	mg/L S alifier	mg/L Unit		Pre	%Rec 103 lient Sa %Rec 89	Analyz Analyz 12/29/11 1 ID: Lab Co Prep Ty Rec. Limits 85 - 115 Ample ID: C Prep Ty Rec. Limits 85 - 115 Ample ID: C Prep Ty	ontrol S pe: To swe-5[pe: To	Dil Fac 1 ample tal/NA D-1211 tal/NA D-1211 tal/NA

'JAN 0 5 2012

Client: Solutia Inc.

Method: 375.4 - Sulfate

Analysis Batch: 223003

Matrix: Water

Analyte

Dissolvad Organic Carbon

Lab Sample ID: MB 680-223003/1

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Lab Sample ID: MB 680-222817/14									C	lient Sa	ample ID: Metho	od Blank
Matrix: Water											Prep Type: `	Total/NA
Analysis Batch: 222817												
	MB	MB										
Analyte	Result	Qualifier		RL	М	DL Unit		D	Pre	pared	Analyzed	Dil Fac
Nitrate as N	0.050	U		0.050		mg/l					12/06/11 15:41	1
Lab Sample ID: LCS 680-222817/15								Cli	ent S	Sample	ID: Lab Control	Sample
Matrix: Water											Prep Type: 1	Γotal/NA
Analysis Batch: 222817												
•			Spike		LCS	LCS					%Rec.	
Analyte			Added		Result	Qualifie	r Unit		D	%Rec	Limits	
Nitrate as N			0.497		0.503		mg/L		_	101	90 - 110	
Nitrate Nitrite as N			0.998		1.00		mg/L			100	90 _ 110	
Nitrite as N			0.502		0,499		mg/L			99	90 - 110	

мв мв

Result Qualifier

10 U

	mple ID: Method Blank Prep Type: Total/NA
oared	Analyzed Oil Fac
	12/08/11 12:37
ample l	D: Lab Control Sample Prep Type: Total/NA
	%Rec.
%Rec	Limits
96	75.125
	mple ID: GWE-5D-1211
lient Sa	
lient Sa	Prep Type: Total/NA
lient Sa	Prep Type: Total/NA %Rec.
lient Sa %Rec	

Analyte	R	esult Qualifier		RL	M	IDL I	Unit		D	Pre	pared	Analyz	eď	Oil Fa
Sulfate		5.0 U		5.0			mg/L					12/08/11 1	2:37	
- Lab Sample ID: LCS 680-223003/2									Cli	ent S	Sample	ID: Lab Co	ntrol S	ampl
Matrix: Water											•	Prep Ty	pe: To	tal/N/
Analysis Batch: 223003														
			Spiķe		LCS	LCS	3					%Rec.		
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Sulfate			20.0		19.3			mg/L			96	75 . 125		
Lab Sample ID: 680-74941-1 MS										c	lient Sa	ample ID: 0	6WE-5)-121
Matrix: Water												Prep Ty	pe: To	tal/N
Analysis Batch: 223003														
·	Sample	Sample	Spike		MS	MS						%Rec.		
Analyte	Result	Qualifier	Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Sulfate	280		20.0		²⁹¹ (4)	mg/L			45	75 - 125		
Lab Sample ID: 680-74941-1 MSD										c	Slient Sa	ample ID: 0	SWE-51)-121 ⁻
Matrix: Water												Prep Ty	pe: To	tal/N/
Analysis Batch: 223003														
	Sample	Sample	Spike		MSD	MSE)					%Rec.		RP
Analyle	Result	Qualifier	Added		Result	Qua	lifler	Unit		D	%Rec	Limits	RPD	Limi
Sulfate	280		20.0		300			mg/L		_	91	75 - 125	3	3
Method: 415.1 - DOC														
Lab Sample ID: MB 680-224100/1										c	lient Sa	imple ID: N	Nethod	Blani
Matrix: Water												Prep Typ	e: Dis	olve
Analysis Batch: 224100														
•		MB MB												

TestAmerica Savannah

Dil Fac

Analyzed

12/15/11 18:27

Prepared

RL

1,0

MDL Unit

mg/L

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Method: 415.1 - DOC (Continu	ied)												
Lab Sample ID: LCS 680-224100/2								Clie	nt S	Sample	ID: Lab Co	ontrol S	ample
Matrix: Water										-	Prep Ty	pe: Dis	solved
Analysis Batch: 224100													
Tillary old Datom All 1999			Spike		LCS	LCS					%Rec.		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Dissolved Organic Carbon			20.0		19.4		mg/L		_	97	80 - 120		
Method: 415.1 - TOC													
 Lab Sample ID: MB 680-224825/2									c	lient Sa	ample ID: I	Method	Blank
Matrix: Water											Prep Ty	ype: To	tal/NA
Analysis Batch: 224825													
		MB MB											
Analyte	R	lesult Qualifier		RL	M	IDL Unit		D	Pre	pared	Analyz	ed	Dil Fac
Total Organic Carbon		1.0 U		1.0		mg/L					12/27/11 1	13:30	1
 Lab Sample ID: LCS 680-224825/4								Clie	nt S	Sample	ID: Lab Co	ontrol S	ample
Matrix: Water										•	Prep Ty	pe: To	tal/NA
Analysis Batch: 224825													
•			Spike		LCS	LCS					%Rec.		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Total Organic Carbon			20.0		19.6		mg/L		_	98	80 - 120		
 Lab Sample ID: 680-74941-1 MS									С	lient Sa	ample ID: (GWE-5I	0-1211
Matrix: Water											Prep Ty	pe: To	tal/NA
Analysis Batch: 224825													
	Sample	Sample	Spike		MS	MS					%Rec.		
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Total Organic Carbon	16		20.0		35.7		mg/L		_	98	80 - 120		
Lab Sample ID: 680-74941-1 MSD									С	lient Sa	ample ID: (GWE-50	D-1 2 11
Matrix: Water											Prep Ty	pe: To	tal/NA
Analysis Batch: 224825													
	Sample	Sample	Spike		MSD	MSD					%Rec.		RPD
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Total Organic Carbon	16		20.0		35.8		mg/L		_	99	80 - 120		25

JAN 0 5 2012

QC Association Summary

Client: Solutia Inc.

LCSD 680-222831/19

Lab Control Sample Dup

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

GC/MS VOA	<u> </u>				
Analysis Batch: 22391	0				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
680-74941-1	GWE-5D-1211	Total/NA	Water	8260B	
680-74941-3	4Q11 SUPP Trip Blank #1	Total/NA	Water	8260B	
LCS 680-223910/4	Lab Control Sample	Total/NA	Water	8260B	
LC\$D 680-223910/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223910/7	Method Blank	Total/NA	Water	8260B	
Analysis Batch: 22405	57				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Ba
680-74941-1 - DL	GWE-5D-1211	Total/NA	Water	8260B	_
LCS 680-224057/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-224057/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-224057/8	Method Blank	Total/NA	Water	8260B	
GC VOA			\		
Analysis Batch: 22368	35				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
680-74941-1	GWE-5D-1211	Total/NA	Water	RSK-175	
LCS 680-223685/3	Lab Control Sample	Total/NA	Water	R\$K-175	
LCSD 680-223685/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
MB 680-223685/1	Method Blank	Total/NA	Water	RSK-175	
/letals					
Prep Batch: 222847 -					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
680-74941-1	GWE-5D-1211	Total Recoverable	Water	3005A	
680-74941-2	GWE-5D-F(0.2)-1211	Dissolved	Water	3005A	
LCS 680-222847/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-222847/1-A	Method Blank	Total Recoverable	Water	3005A	
Analysis Batch: 22295 -	59				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
680-74941-1	GWE-5D-1211	Total Recoverable	Water	6010B	2228
680-74941-2	GWE-5D-F(0.2)-1211	Dissolved	Water	6010B	2228
LCS 680-222847/2-A	Lab Control Sample	Total Recoverable	Water	6010B	2228
MB 680-222847/1-A	Method Blank	Total Recoverable	Water	6010B	2228
General Chemistry					
Analysis Batch: 22281	7				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
680-74941-1	GWE-5D-1211	Total/NA	Water	353.2	
LCS 680-222817/15	Lab Control Sample	Total/NA	Water	353.2	
MB 680-222817/14	Method Blank	Total/NA	Water	353.2	
nalysis Batch: 22283	1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Ba
680-74941-1	GWE-5D-1211	Total/NA	Water	310.1	
LCS 680-222831/6	Lab Control Sample	Total/NA	Water	310.1	
LOOD 600 0000034/40	Lab Castral Passala Dua	Total/NIA	Motor	210.1	

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310.1

Total/NA

Water

QC Association Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

nalysis Batch: 2228	31 (Continued)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-222831/5	Method Blank	Total/NA	Water	310.1	_
naiysis Batch: 2230	03				
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-74941-1	GWE-5D-1211	Total/NA	Water	375.4	
80-74941-1 MS	GWE-5D-1211	Total/NA	Water	375.4	
80-74941-1 MSD	GWE-5D-1211	Total/NA	Water	375.4	
.CS 680-223003/2	Lab Control Sample	Total/NA	Water	375.4	
MB 680-223003/1	Method Blank	Total/NA	Water	375.4	
nalysis Batch: 2241	00				
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-74941-2	GWE-5D-F(0.2)-1211	Dissolved	Water	415,1	
.CS 680-224100/2	Lab Control Sample	Dissolved	Water	415.1	
/IB 680-224100/1	Method Blank	Dissolved	Water	415.1	
nalysis Batch: 22482	25				
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-74941-1	GWE-5D-1211	Total/NA	Water	415,1	
80-74941-1 MS	GWE-5D-1211	Total/NA	Water	415.1	
80-74941-1 MSD	GWE-5D-1211	Total/NA	Water	415.1	
	Lab Control Sample	Total/NA	Water	415.1	
_CS 680-224825/4		I OLIZI) I 47-1			
	Method Blank	Total/NA	Water	415.1	
/IB 680-224825/2	Method Blank		Water	415.1	
MB 680-224825/2 nalysis Batch: 22498	Method Blank		Water Matrix	415.1 Method	Prep Batch
MB 680-224825/2 nalysis Batch: 22498 .ab Sample ID	Method Blank	Total/NA			Prep Batch
MB 680-224825/2 nalysis Batch: 22498 ab Sample ID 80-74941-1	Method Blank 31 Client Sample ID	Total/NA Prep Type	Matrix	Method	Prep Batch
MB 680-224825/2 nalysis Batch: 22498 .ab Sample ID 80-74941-1 80-74941-1 MS	Method Blank Client Sample ID GWE-5D-1211	Total/NA Prep Type Total/NA	Matrix Water	Method 325.2	Prep Batch
LCS 680-224825/4 MB 680-224825/2 nalysis Batch: 22498 Lab Sample ID 680-74941-1 680-74941-1 MS 680-74941-1 MSD LCS 680-224981/2	Method Blank Client Sample ID GWE-5D-1211 GWE-5D-1211	Total/NA Prep Type Total/NA Total/NA	Matrix Water Water	Method 325.2 325.2	Prep Batch

JAN 0 5 2012

Lab Chronicle

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

Client Sample ID: GWE-5D-1211 Lab Sample ID: 680-74941-1

Date Collected: 12/05/11 11:40

Matrix: Water

Date Received: 12/06/11 11:07

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223910	12/16/11 01:21	MJC	TAL SAV
Total/NA	Analysis	8260B	ÐL	20	224057	12/19/11 17:39	RB	TAL SAV
Total/NA	Analysis	RSK-175		1	223685	12/14/11 23:22	SMC	TAL SAV
Total Recoverable	Prep	3005A			222847	12/07/11 09:59	RAM	TAL SAV
Total Recoverable	Analysis	8010B		1	222959	12/08/11 05:10	8CB	TAL SAV
Total/NA	Analysis	353.2		1	222817	12/06/11 15:49	JNC	TAL SAV
Total/NA	Analysis	310.1		1	222831	12/06/11 19:10	TH	TAL SAV
Total/NA	Analysis	375.4		10	223003	12/08/11 12:39	JR	TAL SAV
Tota!/NA	Analysis	415.1		1	224825	12/27/11 14:14	JR	TAL SAV
Total/NA	Analysis	325.2		2	224981	12/29/11 10:19	JR	TAL SAV

Client Sample ID: GWE-5D-F(0.2)-1211

Date Collected: 12/05/11 11:40

Lab Sample ID: 680-74941-2 Matrix: Water

Date Received: 12/06/11 11:07

1	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			222847	12/07/11 09:59	RAM	TAL SAV
Dissolved	Analysis	6010B		1	222959	12/08/11 05:05	BCB	TAL SAV
Dissolved	Analysis	415.1		1	224100	12/15/11 18:27	JR	TAL SAV

Client Sample ID: 4Q11 SUPP Trip Blank #1

Date Collected: 12/05/11 00:00

Date Received: 12/06/11 11:07

Lab Sample	ID: 680-74941-3
------------	-----------------

Matrix: Water

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	82608		1	223910	12/15/11 21:58	WJC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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5102 LaRoche Avenue Savannah

phone 912,354.7858 fax 912,352,0165 Savannah, GA' 31404

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING **TestAmerica**

TestAmerica Laboratories, Inc.

Date Time 11 15 20 Bate Time: Temo 2-0°C, 1.4°C _21662709.88889-WC Job No. 562723. 0000/ 1765 6-089 Sample Specific Notes: Date/Pime: 1520 C of A COCs Sample Disposal (A fee may be assassed if samples are retained longer than 1 month)

Month
Month 170 170 SDG No. COC No: Company: 11/5/e1 Company: Carrier: Dounhtur C Date: 200C P³ 412'1 Dissolved Pe/Mn by 6010B Sire Contact: Nathan McNurlen Received by Much De Lab Contact; Lidya Gulizia Date (Title: Received by: O Date (Title: Received by: Methane by RSK 175 A.275 yd sinllu B.S. 255 yd sbirold 41K/CO2 Py 310.1 Total Fe/Ma by 6010B AOC² P^A 8700 Lijeren Zembje 3 3 7 3 Date/Time: 1530 Çoni. W 12 7 Water Wafer Water Matrix ર્ટ <u>£</u> TAT if different from Below <u>Standard</u> Analysis Turnaround Time Calendar (C) or Work Days (W) Unknown Project Manager: Dave Palmer Sample Type O Ö 9 ø 2 weeks 1 week 2 days i day Tel/Fax: (314) 743-4154 Sample 140 URS 0411 11/5/61 1140 1140 Poison B Company: Time special Instructions/QC Requirements & Comments: Level 4 Data Package 14/5/e/ reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Othe Сопрапу: **X**000 Sample Company: Date Skin Irritan JWE-5D-1211- MSD 5M-1161-DS-3WG -F(0.2)-1211 Project Name: 4Q11 Supplemental GW Sampling 141 1001 Highlands Plaza Drive West, Suite 300 Sample Identification 4Q11 SUPP Trip Blank #_ Drown L Client Contact Possible Hazard Identification GN/E-50 6WE-5D Site: Solutia WG Krummrich Facility Relinquished by: St. Louis, MO 63110 JRS Corporation Relinquished by: 314) 429-0100 314) 429-0462 Relinguished by

Page 21 of 23

0 5 2012 JAN

Login Sample Receipt Checklist

Client: Solutia Inc.

Job Number: 680-74941-1

SDG Number: KPS069

Login Number: 74941

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 and 1.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	5D MS/MSD cancelled by client; will submit on alt location.
/OA sample vials do not have headspace or bubble is <6mm (1/4") in liameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Certification Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011 (GWE-5D)

TestAmerica Job ID: 680-74941-1

SDG: KPS069

boratory	Authority	Program	EPA Region	Certification ID
estAmerica Savannah	A2LA	DoD ELAP		0399-01
estAmerica Savarnah	A2LA	ISO/IEC 17025		399.01
estAmerica Savannah	Alabama	State Program	4	41450
stAmerica Savannah	Arkansaş	Arkansas DOH	6	N/A
stAmerica Savannah	Arkansas	State Program	6	88-0692
estAmerica Savannah	California	NELAC	9	3217CA
estAmerica Savannah	Colorado	State Program	8	N/A
stAmerica Savannah	Connecticut	State Program	1	PH-0161
stAmerica Savannah	Delaware	State Program	3	N/A
estAmerica Savannah	Florida	NELAC	4	E87052
stAmerica Savannah	Georgia	Georgia EPO	4	N/A
stAmerica Savannah	Georgia	State Program	4	803
stAmerica Savannah	Guam	State Program	9	09-005r
stAmerica Savannah	Hawaii	State Program	9	N/A
stAmerica Savannah	Illinois	NELAC	5	200022
stAmerica Savannah	Indiana	State Program	5	N/A
stAmerica Savannah	lowa	State Program	7	353
stAmerica Savannah	Келтиску	Kentucky UST	4	18
stAmerica Savannah	Келтиску	State Program	4	90084
stAmerica Savannah	Louisiana	NELAC	6	30690
stAmerica Savannah	Louisiana	NELAC	6	LA100015
stAmerica Savannah	Maine	State Program	1	GA00006
stAmerica Savannah	Maryland	State Program	3	250
stAmerica Savannah	Massachusetts	State Program	1	M-GA006
stAmerica Savannah	Michigan	State Program	5	9925
stAmerica Savannah	Mississippi	State Program	4	N/A
stAmerica Savannah	Montana	State Program	8	CERT0081
stAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
stAmerica Savannah	New Jersey	NELAC	2	GA769
stAmerica Savaллаh	New Mexico	State Program	6	N/A
stAmerica Savannah	New York	NELAC	2	10842
stAmerica Savannah	North Carolina	North Carolina DENR	4	269
stAmerica Savannah	North Carolina	North Carolina PHL	4	13701
stAmerica Savannah	Oklahoma	State Program	6	9984
stAmerica Savannah	РеллѕуІvаліа	NELAC	3	68-00474
stAmerica Savannah	Puerto Rico	State Program	2	GA00006
stAmerica Savannah	Rhode Island	State Program	1	LAO00244
stAmerica Savannah	South Carolina	State Program	4	98001
stAmerica Savanлah	Tennessee	State Program	4	TN02961
stAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
stAmerica Savannah	USDA	USDA	U	SAV 3-04
stAmerica Savannah	Vermont		1	
		State Program	1	87052
stAmerica Savannah	Virginia	NELAC State Program	3	460161
stAmerica Savannah	Virginia	State Program	3	302
stAmerica Savannah	Washington	State Program	10	C1794
stAmerica Savannah	West Virginia	West Virginia DEP	3	94
stAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
stAmerica Savannah	Wisconsin	State Program	5	999819810

Accreditation may not be offered or required for all methods and analytes reported in this package, Please contact your project manager for the laboratory's current list of certified methods and analytes.

JAN 0 5 2012 TestAmerica Savannah

SDG KPS070

Results of Samples from Piezometers:

GWE-1D

GWE-2D

GWE-3D



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404 Tel: (912)354-7858

TestAmerica Job ID: 680-74941-2

TestAmerica Sample Delivery Group: KPS070

Client Project/Site: WGK Supp GW 4Q11 - DEC 2011

For:

Solutia Inc.

575 Maryville Centre Dr. Saint Louis, Missouri 63141

Attn: Mr. Jerry Rinaldi

Lidya Juliaia

Authorized for release by: 1/4/2012 5:37:05 PM

Lidya Gulizia Project Manager II lidya.gulizia@testamericainc.com

cc: Bob Billman

Carendon My

Have a Question?

.....LINKS

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Total Access



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070



Job ID: 680-74941-2

Laboratory: TestAmerica Savannah

Narrative

Job Narrative 680-74941-2

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

Method(s) RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 223685 were outside control limits for Methane. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 223650 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) 375.4: The matrix spike(MS) recoveries for batch 223003 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Comments

No additional comments.

JAN 0 5 2012

Sample Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Lab Sample ID Clier	nt Sample ID	Matrix	Collected	Deserved
			Contected	Received
680-74941-4 GWE	E-1D-1211 :/	Water	12/05/11 14:35	12/06/11 11:07
680-74941-5 GWE	E-10-F(0.2)-1211	Water	12/05/11 14:35	12/06/11 11:07
680-74941-6 GWE	E-2D-1211-EB	Water	12/05/11 15:00	12/06/11 11:07
680-74941-7 4Q1	1 SUPP Trip Blank #2	Water	12/05/11 00:00	12/06/11 11:07
680-74988-1 GWE	E-3D-1211	Water	12/06/11 09:10	12/07/11 12:30
680-74988-2 GWE	E-3D-F(0.2)-1211	Water	12/06/11 09:10	12/07/11 12:30
680-74988-3 GWE	E-3D-1211-AD	Water	12/06/11 09:10	12/07/11 12:30
680-74988-4 GWE	E-2D-1211	Water	12/06/11 10:35	12/07/11 12:30
680-74988-5 GWE	E-2D-F(0.2)-1211	Water	12/06/11 10:35	12/07/11 12:30
680-74988-6 4Q1	1 SUPP Trip Blank #3	Water	12/08/11 00:00	12/07/11 12:30

JAN 0 5 2012

Method Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
6010B	Metals (ICP)	SW846	TAL SAV
310.1	Alkalinity	MCAWW	TAL SAV
325.2	Chloride	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
375.4	Sulfate	MCAWW	TAL SAV
415.1	TOC	MCAWW	TAL SAV
415.1	DDC	MCAWW	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

JAN 0 5 2012

Definitions/Glossary

Client: Solutia Inc.

TEQ

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 680-74941-2 Project/Site: WGK Supp GW 4Q11 - DEC 2011 SDG: KPS070

Qualifiers	
GC/MS VOA	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected,
GC VOA	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Metals	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
General Chen	nistry
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Abbreviation	These commonly used abbreviations may or may not be present in this report.
☆	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
ŘL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Detection Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

Client Sample ID: GWE-3D-F(0.2)-1211

Analyte

Iron, Dissolved

Manganese, Dissolved

Dissolved Organic Carbon

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Analyte	Recult	Qualifier	RL	MDL	Unit	Dil Fac	п	Method	Prep Type
Benzene	11		1.0		ug/L		_	8260B	Total/NA
Chlorobenzene	11		1.0		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.6		1.0		ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	4.0		1.0		ug/L	1		8260B	Total/NA
Methane	5.6		0.58		ug/L	1		RSK-175	Total/NA
Iron	19		0.050		mg/L	1		6010B	Total Recove
Manganese	0.53		0,010		mg/L	1		6010B	Total Recove
Chloride	70		1.0		mg/L	1		325.2	Total/NA
Nitrate as N	0,064		0,050		mg/L	1		353.2	Total/NA
Sulfate	300		50		mg/L	10		375.4	Total/NA
Total Organic Carbon	2.5		1.0		mg/L	1		415.1	Total/NA
_	Result	Qualifier	RL	DI.	Unit	Dil Fac	D	Method	
Analyte Alkalinity	460	Qualities -	5.0		mg/L	1	_	310.1	Prep Type Total/NA
Carbon Dioxide, Free	28		5,0		mg/L	1		310.1	Total/NA
Carbon Dioxide, Piee	20		3,0		nig/L	'		310.1	TOTALITYA
lient Sample ID: GWE-1D	-F(0.2)-1211		and the fate of thick to			La	ıb.	Sample ID	: 680-74941-
Analyte	Result	Qualifier	RL	MDL	Unit	Oil Fac	D	Method	Prep Type
Iron, Dissolved	18		0,050		mg/L		_	6010B	Dissolved
Manganese, Dissolved	0.52		0.010		mg/L	1		6010B	Dissolved
Dissolved Organic Carbon lient Sample ID: GWE-2D	-1211-EB	I a 10 addisa 100attis I	1,0		mg/L	1 La		415.1 Sample ID	Dissolved 2: 680-74941-
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections					mg/L				
Dissolved Organic Carbon Client Sample ID: GWE-2D	-1211-EB	#2			mg/L	La	b :	Sample ID	
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections	-1211-EB PP Trip Blank	#2			mg/L	La	ıb :	Sample ID): 680-74941-): 680-74941-
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections	-1211-EB PP Trip Blank -1211	#2 Qualifier		MDL		La La	b :	Sample ID): 680-74941-): 680-74941-
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Lient Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D	-1211-EB PP Trip Blank -1211		1,0	MDL		La La	b :	Sample ID Sample ID	0: 680-74941- 0: 680-74941- 0: 680-74988-
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene	-1211-EB PP Trip Blank -1211 Result		1,0	MDL	Unit	La La Dil Fac	b :	Sample ID Sample ID Method	0: 680-74941 0: 680-74941 0: 680-74988 Prep Type
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene	-1211-EB PP Trip Blank -1211 Result		1,0 	MDL	Unit ug/L	La La Dil Fac	b :	Sample ID Sample ID Method 8260B	0: 680-74941 0: 680-74941 0: 680-74988 Prep Type Total/NA
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte	-1211-EB PP Trip Blank -1211 Result 11 1200		RL 10 10	MDL	Unit ug/L ug/L	La Dil Fac 10 10	b :	Sample ID Sample ID Method 82608 82608	0: 680-74941 0: 680-74941 0: 680-74988 Prep Type Total/NA Total/NA
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene	-1211-EB PP Trip Blank -1211 Result 11 1200 11		RL 10 10 10	MDL	Unit ug/L ug/L ug/L	La Dil Fac 10 10	b :	Sample ID Sample ID Method 82608 82608 82608	9: 680-74941- 9: 680-74941- 9: 680-74988- Prep Type Total/NA Total/NA
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene	-1211-EB PP Trip Blank -1211 Result 11 1200 11 84		RL 10 10 10 10 10 10	MDL	Unit ug/L ug/L ug/L	La Dil Fac 10 10 10	b :	Sample ID Sample ID Method 8260B 8260B 8260B	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane	-1211-EB PP Trip Blank -1211 Result 11 1200 11 84 16		RL 10 10 10 10 0.58	MDL	Unit ug/L ug/L ug/L ug/L	La Dil Fac 10 10 10 10 10	b :	Sample ID Sample ID Method 82608 82608 82608 82608 RSK-175	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/RE Total/NA
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese	-1211-EB PP Trip Blank -1211 Result 11 1200 11 84 16 12		RL 10 10 10 10 0.58 0.050	MDL	Unit ug/L ug/L ug/L ug/L ug/L	La La Dil Fac 10 10 10 11	ib :	Sample ID Sample ID Method 82608 82608 82608 82608 RSK-175 60108	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/RE Total/NA
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron	-1211-EB PP Trip Blank -1211 Result 11 1200 11 84 16 12 0.36		RL 10 10 10 10 0.58 0.050 0.010	MDL	Unit ug/L ug/L ug/L ug/L ug/L ug/L mg/L	La La Dil Fac 10 10 10 11 1 1	ib :	Sample ID Sample ID Sample ID Method 8260B 8260B 8260B 8260B RSK-175 6010B 6010B	Prep Type Total/NA
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride	-1211-EB PP Trip Blank -1211 Result 11 1200 11 84 16 12 0.36 59		RL 10 10 10 10 0.58 0.050 0.010 1.0	MDL	Unit ug/L ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L	La La Dil Fac 10 10 10 1 1 1	ib :	Sample ID Sample ID Sample ID Method 82608 82608 82608 82608 RSK-175 60108 60108 325.2	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total Recove Total/NA
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride Sulfate	-1211-EB PP Trip Blank -1211 Result 11 1200 11 84 16 12 0.36 59 170 2.8		RL 10 10 10 10 0.58 0.050 0.010 1.0 25		Unit ug/L ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L	La La Dil Fac 10 10 10 1 1 1 1 5	b :	Sample ID Sample ID Sample ID Method 82608 82608 82608 82608 RSK-175 60108 60108 325.2 375.4	2: 680-74941- 2: 680-74941- 3: 680-74988- Prep Type Total/NA Total/NA Total/NA Total/NA Total/Recove Total Recove Total/NA Total/NA
Dissolved Organic Carbon Client Sample ID: GWE-2D No Detections Client Sample ID: 4Q11 SU No Detections Client Sample ID: GWE-3D Analyte Benzene Chlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Methane Iron Manganese Chloride Sulfate Total Organic Carbon	-1211-EB PP Trip Blank -1211 Result 11 1200 11 84 16 12 0.36 59 170 2.8	Qualifier	RL 10 10 10 10 0.58 0.050 0.010 1.0 25 1.0		Unit ug/L ug/L ug/L ug/L mg/L mg/L mg/L mg/L mg/L	La La Dil Fac 10 10 10 1 1 1 1 1	b :	Sample ID Sample ID Sample ID Method 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8250B 8325.2 375.4 415.1	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA

TestAmerica Savannah

Prep Type

Dissolved

Dissolved

Dissolved

Lab Sample ID: 680-74988-2

Dil Fac D Method

6010B

6010B

415.1

JAN 0 5 2012

RL

0.050

0.010

1.0

MOL Unit

mg/L

mg/L

mg/L

Result Qualifier

13

0.38

3,1

Detection Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-3		La	b	Sample ID	680-74988-3				
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Ď	Method	Prep Type
Benzene	11		10		ug/L	10	_	8260B	Total/NA
Chlorobenzene	1100		10		ug/L	10		8260B	Total/NA
1,2-Dichlorobenzene	11		10		ug/L	10		8260B	Total/NA
1,4-Dichlorobenzene	65		10		ug/L	10		8260B	Tota!/NA
Client Sample ID: GWE-2	D-1211					La	b	Sample ID): 680-74988-4
- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	18		1.0		ug/L		_	8280B	Total/NA
Chlorobenzene	19		1.0		ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1,2		1.0		ug/L	1		82608	Total/NA
1,4-Dichlorobenzene	2.9		1.0		ug/L	1		8260B	Total/NA
Melhane	1,1		0.58		ug/L	1		RSK-175	Total/NA
Iron	18		0,050		mg/L	1		6010B	Total Recovers
Manganese	0.41		0.010		mg/L	1		60108	Total Recover
Chloride	95		1.0		mg/L	1		325.2	Total/NA
Sulfate	310		50		mg/L	10		375.4	Total/NA
Total Organic Carbon	2.8		1.0		mg/L	1		415.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	500		5.0		mg/L		_	310.1	Total/NA
Carbon Dioxide, Free	25		5.0		mg/L	1		310.1	Total/NA
Client Sample ID: GWE-2	D-F(0.2)-1211					La	b	Sample ID): 680-74988-5
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Đ	Method	Prep Type
							_		

0.050

0.010

1.0

mg/L

mg/L

mg/L

6010B

6010B

415.1

Lab Sample ID: 680-74988-6

Client Sample ID: 4Q11 SUPP Trip Blank #3

17

0.39

3.0

No Detections

Iron, Dissolved

Manganese, Dissolved

Dissolved Organic Carbon

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Dissolved

Dissolved

Dissolved

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-1D-1211 Lab Sample ID: 680-74941-4

Date Collected: 12/05/11 14:35 Date Received: 12/06/11 11:07 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11		1.0		ug/L	·		12/16/11 00:58	1
Chlorobenzene	11		1.0		ug/L			12/16/11 00:58	1
1,2-Dichlorobenzene	1.6		1,0		ug/L			12/16/11 00:58	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/16/11 00:58	1
1,4-Dichlorobenzene	4.0		1.0		ug/L			12/16/11 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 130					12/16/11 00:58	1
Dibromofluoromethane	87		70 - 130					12/16/11 00:58	1
Toluene-d8 (Surr)	112		70 - 130					12/16/11 00:58	1
Method: RSK-175 - Dissolve	ed Gases (GC)								
Analyte	, ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.1	U	1,1		ug/L			12/14/11 23:35	1
Ethylene	1.0	U	1.0		ug/L			12/14/11 23:35	1
Methane	5.6		0.58		ug/L			12/14/11 23:35	1
Method: 6010B - Metals (ICF	P) - Total Recoverat	ole							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	19		0.050		mg/L		12/07/11 09:59	12/08/11 05:15	1
Manganese	0.53		0.010		mg/L		12/07/11 09:59	12/08/11 05:15	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70		1.0		mg/L			12/29/11 10:04	
Nitrate as N	0.064		0.050		mg/L			12/06/11 15:51	1
Sulfate	300		50		mg/L			12/08/11 12:41	10
Total Organic Carbon	2.5		1.0		mg/L			12/27/11 14:54	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	460		5.0		mg/L			12/06/11 19:20	1
Carbon Dioxide, Free	28		5.0		mg/L			12/06/11 19:20	1

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-1D-F(0.2)-1211

Date Collected: 12/05/11 14:35 Date Received: 12/06/11 11:07 Lab Sample ID: 680-74941-5

Matrix: Water

	Method: 6010B - Metals (ICP) - Dissolved									
	Analyte	Result Qualific	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
ł	Iron, Dissolved	18	0,050		mg/L		12/07/11 09:59	12/08/11 05:00	1	
į	Manganese, Dissolved	0.52	0.010		mg/L		12/07/11 09:59	12/08/11 05:00	1	

General Chemistry - Dissolved										
Analyte	Result	Qualifier	RL	MDL	Unit	D	•	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.5		1.0		mg/L		_		12/15/11 18:27	1

U

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-2D-1211-EB Lab Sample ID: 680-74941-6

Date Collected: 12/05/11 15:00 Date Received: 12/06/11 11:07 Matrix: Water

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Díl Fac
Веплепе	1.0	U	1.0	ug/L			12/15/11 23:51	1
Chlorobenzene	1.0	U	1.0	ug/L			12/15/11 23:51	1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L			12/15/11 23:51	1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L			12/15/11 23:51	1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L			12/15/11 23:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		70 - 130		,		12/15/11 23:51	1
Dibromofluoromethane	90		70 - 130				12/15/11 23:51	1
Toluene-d8 (Surr)	112		70 - 130				12/15/11 23:51	1

JAN 0 5 2012

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: 4Q11 SUPP Trip Blank #2

Date Collected: 12/05/11 00:00 Date Received: 12/06/11 11:07 Lab Sample ID: 680-74941-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	Ū	1.0		ug/L			12/15/11 22:21	-
Chlorobenzene	1,0	U	1.0		ug/L			12/15/11 22:21	•
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 22:21	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 22:21	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		70 - 130			-		12/15/11 22:21	
Dibromofluoromethane	89		70 ₋ 130					12/15/11 22:21	7
Toluena-d8 (Surr)	111		70 ₋ 130					12/15/11 22:21	1

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Lab Sample ID: 680-74988-1

Matrix: Water

Client Sample ID: GWE-3D-1211

Date Collected: 12/06/11 09:10

Date Received: 12/07/11 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11		10		ug/L			12/20/11 13:16	1
Chlorobenzene	1200		10		ug/L			12/20/11 13:16	16
1,2-Dichlorobenzene	11		10		ug/L			12/20/11 13:16	10
1,3-Dīchlorobenzene	10	U	10		ug/L			12/20/11 13:16	10
1,4-Dichlorobenzene	64		10		ug/L			12/20/11 13:16	11
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene	98		70 - 130					12/20/11 13:16	
Dibromofluoromethane	87		70 ₋ 130					12/20/11 13:16	10
Toluene-d8 (Surr)	107		70 - 130					12/20/11 13:16	10
Method: RSK-175 - Dissolved Gas Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
<u> </u>				MDL		D	Prepared		
Ethane	1.1	U	1.1		ug/L			12/14/11 23:47	
Ethylene	1.0	U	1.0		ug/L			12/14/11 23:47	1
Methane	16		0.58		ug/L			12/14/11 23:47	1
Method: 6010B - Metals (ICP) - To	tal Recoverat	ole							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
iron	12		0.050		mg/L		12/12/11 08:20	12/14/11 04:29	1
Manganese	0.36		0.010		mg/L		12/12/11 08:20	12/14/11 04:29	1
General Chemistry									
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte					mg/L			12/29/11 10:04	
	59		1,0		my/L				
Chloride	59 0,050	U	1.0 0.050		mg/L			12/07/11 16:55	
Chloride Nitrate as N		U			•			12/07/11 16:55 12/28/11 15:50	1
Analyte Chloride Nitrate as N Sulfate Total Organic Carbon	0,050	U	0.050		mg/L				1
Chloride Nitrate as N Sulfate	0,050 170 2.8	U Qualifler	0.050 25 1.0 RL	RL	mg/L mg/L		Prepared	12/28/11 15:50 12/27/11 15:08 Analyzed	1 5
Chloride Nitrate as N Sulfate Total Organic Carbon	0,050 170 2.8		0.050 25 1.0	RL	mg/L mg/L mg/L	0	Prepared	12/28/11 15:50 12/27/11 15:08	1 1 5 1 Dil Fac

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-3D-F(0.2)-1211 Lab Sample ID: 680-74988-2

Date Collected: 12/06/11 09:10 Date Received: 12/07/11 12:30 Matrix: Water

Method: 6010B - Metals (ICP) - Diss	solved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	13		0.050		mg/L		12/12/11 08:20	12/14/11 04:34	1
Manganese, Dissolved	0.38		0.010		mg/L		12/12/11 08:20	12/14/11 04:34	1
General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.1		1.0		mg/L			12/27/11 13:20	1

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-3D-1211-AD Lab Sample ID: 680-74988-3

Date Collected: 12/06/11 09:10 Date Received: 12/07/11 12:30 Matrix: Water

Analyte	Result	Qualifier	ŔĿ	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene			10		ug/L			12/20/11 13:45	10
Chlorobenzene	1100		10		ug/L			12/20/11 13:45	10
1,2-Dichlorobenzene	11		10		ug/L			12/20/11 13:45	10
1,3-Dichlorobenzene	10	U	10		ug/L			12/20/11 13:45	10
1,4-Dichlorobenzene	65		10		ug/L			12/20/11 13:45	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130			-		12/20/11 13:45	10
Dibromofluoromethane	92		70 - 130					12/20/11 13:45	10
Toluene-d8 (Surr)	106		70 ₋ 130					12/20/11 13:45	10

JAN 0 5 2012

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-2D-1211 Lab Sample ID: 680-74988-4

Date Collected: 12/06/11 10:35 Date Received: 12/07/11 12:30 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Велгепе	18		1.0		ug/L			12/20/11 16:09	1
Chlorobenzene	19		1,0		ug/L			12/20/11 16:09	1
1,2-Dichlorobenzene	1.2		1.0		ug/L			12/20/11 16:09	1
1,3-Dichlorobenzene	1,0	U	1.0		ug/L			12/20/11 16:09	1
1,4-Dichlorobenzene	2.9		1,0		ug/L			12/20/11 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130					12/20/11 16:09	1
Dibromofluoromethane	88		70 - 130					12/20/11 16:09	1
Toluene-d8 (Surr)	112		70 - 130					12/20/11 16:09	1
Method: RSK-175 - Dissolve	d Gases (GC)								
Analyte	, ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1,1	Ū	1.1		ug/L			12/15/11 00:00	1
Ethylene	1.0	U	1.0		ug/L			12/15/11 00:00	1
Methane	1.1		0.58		ug/L			12/15/11 00:00	1
Method: 6010B - Metals (ICP) - Total Becoverat	No.							
Analyte	,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron			0.050		mg/L		12/12/11 08:20	12/14/11 04:39	
Manganese	0.41		0.010		mg/L		12/12/11 08:20	12/14/11 04:39	1
General Chemistry									
	- H	0		MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	IIIDC					
<u>- </u>	Result	Qualifier	1.0		mg/L			12/29/11 10:04	1
Chloride					mg/L mg/L			12/29/11 10:04 12/07/11 16:57	1
Chloride Nitrate as N	95		1.0		-				
Chloride Nitrate as N Sulfate	95 0.050		1.0 0.050		mg/L			12/07/11 16:57	1
Analyte Chloride Nitrate as N Sulfate Total Organic Carbon Analyte	95 0.050 310 2.8		1.0 0.050 50		mg/L mg/L	D	Prepared	12/07/11 16:57 12/26/11 15:54	1 10
Chloride Nitrate as N Sulfate Total Organic Carbon	95 0.050 310 2.8	U	1.0 0.050 50 1.0		mg/L mg/L mg/L	<u>D</u>	Prepared	12/07/11 16:57 12/26/11 15:54 12/27/11 15:22	1 10 1

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-2D-F(0.2)-1211 Lab Samp

Date Collected: 12/06/11 10:35 Date Received: 12/07/11 12:30 Lab Sample ID: 680-74988-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	Ď	Prepared	Analyzed	Dil Fac
Iron, Dissolved	17		0.050		mg/L		12/12/11 08:20	12/14/11 04:54	1
Manganese, Dissolved	0.39		0.010		mg/L		12/12/11 08:20	12/14/11 04:54	1
General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	Ď	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.0		1.0		mg/L			12/27/11 13:20	

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: 4Q11 SUPP Trip Blank #3 Lab Sample ID: 680-74988-6

Date Collected: 12/06/11 00:00 Date Received: 12/07/11 12:30 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			12/12/11 22:53	1
Chlorobenzene	1.0	U	1.0		ug/L			12/12/11 22:53	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/12/11 22:53	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/12/11 22:53	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			12/12/11 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		70 - 130			-		12/12/11 22:53	1
Dibromofluoromethane	99		70 - 130					12/12/11 22:53	1
Toluene-d8 (Surr)	103		70.130					12/12/11 22:53	1

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

				Percent Surroga	te Recovery (Acceptance Limits
		BFB	DBFM	TOL	
b Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	
0-74941-4	GWE-1D-1211	96	87	112	
0-74941-6	GWE-2D-1211-EB	92	90	112	
0-74941-7	4Q11 SUPP Trip Blank #2	93	89	111	
0-74988-1	GWE-3D-1211	98	87	107	
0-74968-3	GWE-3D-1211-AD	100	92	106	
0-74968-4	GWE-2D-1211	95	88	112	
0-74988-4 MS	GWE-2D-1211	101	95	103	
0-74988-4 MSD	GWE-2D-1211	99	93	104	
0-74988-6	4Q11 SUPP Trip Blank #3	102	99	103	
S 680-223436/3	Lab Control Sample	96	101	96	
S 680-223910/4	Lab Control Sample	105	96	104	
S 680-224198/4	Lab Control Sample	102	96	101	
SD 680-223436/4	Lab Control Sample Dup	102	105	99	
SD 680-223910/5	Lab Control Sample Dup	104	96	103	
SD 680-224198/5	Lab Control Sample Dup	105	99	104	
8 680-223436/6	Method Blank	102	101	102	
8 680-223910/7	Method Blank	94	88	109	
8 680-224198/7	Method Blank	100	93	106	

Surrogate Legend

BFB = 4-Bromofluorobenzene

D8FM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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Client: Solutia Inc.

Matrix: Water

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-223436/6

436/6 Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 223436

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			12/12/11 19:29	
Chlorobenzene	1.0	U	1.0		ug/L			12/12/11 19:29	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/12/11 19:29	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/12/11 19:29	1
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			12/12/11 19:29	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		70 - 130		12/12/11 19:29	1 5
Dibromofluoromethane	101		70 - 130		12/12/11 19:29	1
Toluene-d8 (Surr)	102		70 - 130		12/12/11 19:29	1



Lab Sample ID: LCS 680-223436/3

Matrix: Water

Analysis Batch: 223436

Client Sample ID	: Lab Control Sample
	Prep Type: Total/NA

	Spike	LCS LCS			%Rec.	
Analyte	Added Re	sult Qualifier	Unit	D %Rec	Limits	
Benzene	50.0	48.9	ug/L	98	70 - 130	
Chlorobenzene	50.0	49,5	ug/L	99	70 - 130	
1,2-Dichlorobenzene	50.0	49.4	ug/L	99	70 - 130	
1,3-Dichlorobenzene	50,0	49.2	ug/L	98	70 - 130	
1,4-Dichlorobenzene	50.0	48.8	ug/L	98	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 223436

Lab Sample ID: LCSD 680-223436/4

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	50.0	50.9		ug/L		102	70 - 130	4	30	
Chlorobenzene	50.0	51.7		ug/L		103	70 - 130	4	30	
1,2-Dichlorobenzene	50,0	51.5		ug/L		103	70 - 130	4	30	
1,3-Dichlorobenzene	50,0	51.6		ug/L		103	70 - 130	5	30	
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 130	4	30	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 223910

Lab Sample ID: MB 680-223910/7

-	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	•	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L				12/15/11 21:36	1

Client: Solutia Inc.

Matrix: Water

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-223910/7

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Analysis Batch: 223910

	MB	MB							
Analyte	Result	Qualiner	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:36	1
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:36	1
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			12/15/11 21:36	1
1,4-Dichlorobenzene	1,0	U	1.0		ug/L			12/15/11 21:36	1
	мв	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	94		70 - 130			_		12/15/11 21:36	1
Dibromofluoromethane	88		70 - 130					12/15/11 21:36	1
Toluene-d8 (Surr)	109		70 - 130					12/15/11 21:36	1



Lab Sample ID: LCS 680-223910/4

Matrix: Water

Analysis Batch: 223910

	Spike	LCS	LCS			%Re c .	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Benzene	50.0	52.3	ug/L		105	70 - 130	
Chlorobenzene	50.0	51.0	ug/L		102	70 _ 130	
1,2-Dichlorobenzene	50.0	53.8	ug/L		108	70 - 130	
1,3-Dichlorobenzene	50,0	52.7	ug/L		105	70 - 130	
1,4-Dichlorobenzene	50.0	52.5	ug/L		105	70 - 130	

LCS LCS Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene 70 - 130 105 70 - 130 Dibromofluoromethane 96 70 - 130 Toluene-d8 (Surr) 104

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 223910

Lab Sample ID: LCSD 680-223910/5

RPD
Limit
30
30
30
30
30
D 2 1 1 2 1

LCSD LCSD %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene 104 Dibromofluoromethane 96 70 - 130 Toluene-d8 (Surr) 103 70.130

Lab Sample ID: MB 680-224198/7

Matrix: Water

Surrogate

Analysis Batch: 224198

Client Sample ID: Method Blank

Prep Type: Total/NA

	1910								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			12/20/11 12:48	1
Chlorobenzene	1.0	U	1.0		ug/L			12/20/11 12:48	1

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-224198/7 Client Sample ID: Method Blank
Matrix: Water Prep Type: Total/NA

Analysis Batch: 224198

		МВ	мв							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
į	1,2-Dichlorobenzene	1.0	U	1.0		ug/L			12/20/11 12:48	1
	1,3-Dichlorobenzene	1,0	υ	1.0		ug/L			12/20/11 12:48	1
	1,4-Dichlorobenzene	1.0	U	1.0		ug/L			12/20/11 12:48	1

	,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_		-3.	_			•
		мв	мв						
	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene	100		70 - 130		_		12/20/11 12:48	1
	Dibromofluoromethane	93		70 ₋ 130				12/20/11 12:48	1
1	Toluene-d8 (Surr)	106		70 ₋ 130				12/20/11 12:48	1
	_								

Lab Sample ID: LCS 680-224198/4

Matrix: Water Analysis Batch: 224198 Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50.0	52.0		ug/L		104	70 - 130	
Chlorobenzene	50.0	48.5		ug/L		97	70 - 130	
1,2-Dichlorobenzene	50,0	51,1		ug/L		102	70 - 130	
1,3-Dichlorobenzene	50,0	50.1		ug/L		100	70 - 130	
1,4-Dichlorobenzene	50.0	49.8		ug/L		100	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 680-224198/5

Matrix: Water

Analysis Batch: 224198

Client Sample ID:	Lab Control Sample Dup
	Prep Type: Total/NA

	Spike	LCSD	LCSD			%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit D	%Rec	Limits	RPD	Limit
Benzene	50.0	53.5		ug/L	107	70 - 130	3	30
Chlorobenzene	50,0	51.2		ug/L	102	70 - 130	5	30
1,2-Dichlorobenzene	50.0	54.6		ug/L	109	70 - 130	7	30
1,3-Dichlorobenzene	50.0	52.2		ug/L	104	70 - 130	4	30
1,4-Dichlorobenzene	50.0	53.1		ug/L	106	70 - 130	6	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	105		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	104		70 ₋ 130

Lab Sample ID: 680-74988-4 MS

Matrix: Water
Analysis Batch: 224198

Client Sample ID: GWE-2D-1211

Prep Type: Total/NA

1	Allalysis Datell. 224130										
į		Sample	Sample	Spike	MS	MS				%Rec.	
i	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
ĺ	Benzene	18		50,0	72.2		ug/L		108	70 - 130	
l	Chlorobenzene	19		50.0	69.7		ug/L		101	70 - 130	
ŀ	1,2-Dichlorobenzene	1.2		50.0	51.8		ug/L		101	70 _ 130	

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

93

104

Lab Sample ID: 680-74988-4 MS Client Sample ID: GWE-2D-1211 Matrix: Water Prep Type: Total/NA

Analysis Batch: 224198

		Sample	Sample	Spike	MS	MS				%Rec.	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	1,3-Dichlorobenzene	1.0	U	50.0	51.0		ug/L	_	101	70 - 130	
į	1,4-Dichlorobenzene	2.9		50.0	53.9		ug/L		102	70 - 130	
		MS	MS								

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene 70 - 130 101 Dibromofluoromethane 70 - 130 95 Toluene-d8 (Sum) 103 70.130

Lab Sample ID: 680-74988-4 MSD

Matrix: Water

Analysis Ratch: 224198

Client Sample ID: GWE-2D-1211

Prep Type: Total/NA

Analysis Batti: 224196											
	Sample	Sample	Spike	MSD	M\$D				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	18		50.0	70.9		ug/L		105	70 _ 130	2	30
Chlorobenzene	19		50.0	68.2		ug/L		98	70 - 130	2	30
1,2-Dichlorobenzene	1.2		50.0	51.4		ug/L		100	70 _ 130	1	30
1,3-Dichlorobenzene	1.0	U	50.0	49.9		ug/L		100	70 - 130	2	30
1,4-Dichlorobenzene	2.9		50.0	53.1		ug/L		100	70 - 130	1	30
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4 Promoficombanzane	aa		70 130								

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-223685/1 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

70 - 130

70 - 130

Analysis Batch: 223685

Dibromofluoromethane

Toluene-d8 (Surr)

н	, , e.e = =======									
į		мв	MB							
l	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Ethane	1.1	U	1.1		ug/L			12/14/11 21:36	
į	Ethylene	1.0	U	1.0		ug/L			12/14/11 21:36	1
ļ	Methane	0.58	U	0.58		ug/L			12/14/11 21:36	1

Lab Sample ID: LCS 680-223685/3 Client Sample ID: Lab Control Sample Prep Type: Total/NA Matrix: Water

Analysis Batch: 223685

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethane	282	263		ug/L		93	75 - 125	
Ethylene	271	256		ug/L		94	75 ₋ 125	
Methane	153	147		ug/L		96	75 - 125	

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: RSK-175 - Dissolved Gases (GC) (Continued	Method:	: RSK-175 -	Dissolved	Gases ((GC)	(Continued
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Lab Sample ID: LCSD 680-223685/4 Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA

Analysis Batch: 223685

Manganese, Dissolved

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier L	Init	D	%Rec	Limits	RPD	Limit
Ethane	282	312		g/L		111	75 - 125	17	30
Ethylene	271	297	u	g/L		110	75 - 125	15	30
Methane	153	173	u	g/L		113	75 - 125	16	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 680-222847/1-A Client Sample ID: Method Blank
Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 222959 Prep Batch: 222847

мв мв Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac 12/07/11 09:59 Iron 0.050 U 0.050 mg/L 12/08/11 03:09 Iran, Dissolved 0.050 11 0.050 mg/L 12/07/11 09:59 12/08/11 03:09 1 0.010 U Manganese 0.010 mg/L 12/07/11 09:59 12/08/11 03:09

0.010

mg/L

12/07/11 09:59

12/08/11 03:09

Lab Sample ID: LCS 680-222847/2-A

Matrix: Water

Analysis Batch: 222959

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 222847

Spike LCS LCS %Rec.

0.010 U

Analyte	Added	Result	Qualifier	Unit	Đ	%Rec	Limits	
Ігол	1.00	0.929		mg/L		93	75 - 125	
Iron, Dissolved	1,00	0.929		mg/L		93	75 - 125	
Manganese	0.500	0.472		mg/L		94	75 - 125	
Manganese, Dissolved	0.500	0.472		mg/L		94	75 - 125	

Lab Sample ID: MB 680-222916/1-A

Matrix: Water

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Analysis Batch: 223594 Prep Batch: 222916

мв мв Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed Ігол 0.050 Ü 0.050 12/07/11 17:20 12/14/11 02:53 mq/L Iron, Dissolved 0.050 U 0.050 mg/L 12/07/11 17:20 12/14/11 02:53 Manganese 0.010 U 0.010 mg/L 12/07/11 17:20 12/14/11 02:53 Manganese, Dissolved 0.010 U 0.010 mg/L 12/07/11 17:20 12/14/11 02:53

Lab Sample ID: LCS 680-222916/2-A

Matrix: Water

Analysis Batch: 223594

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 222916

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits lron 1.00 1.05 mg/L 105 75 - 125 Iron Dissolved 1.00 1.05 mg/L 105 75 - 125 Manganese 0.500 0.529 mg/L 106 75 - 125 Manganese, Dissolved 0.500 0.529 mg/L 75 - 125

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Lab Sample ID: MB 680-222831/5										Client	Sample ID:	Method	i Blani
Matrix: Water											-	ype: To	
Analysis Batch: 222831											•		
-	MB	MB											
Analyte	Result	Qualifier		RL		RL U	nit		D I	Prepared	Analy:	zed	Dil Fa
Alkalinity	5.0	U		5.0		m	g/L				12/06/11	18:02	
Carbon Dioxide, Free	5.0	U		5.0		m	g/L				12/06/11	18:02	
Lab Sample ID: LCS 680-222831/6									Clien	t Sampl	e ID: Lab C		
Matrix: Water											Prep 1	ype: To	otal/N
Analysis Batch: 222831													
			Spike		LCS						%Rec.		
Analyte			Added		Result	Qualit		Jnit 	:	D %Rec			
Alkalinity			183		176		n	ng/L		96	80 - 120		
Lab Sample ID: LCSD 680-222831/19								Clie	nt Sar	nple ID:	Lab Contro		
Matrix: Water											Prep I	ype: To	otal/N/
Analysis Batch: 222831			Spike		LCSD	LCSD					%Rec.		
8 maluta			Added		Result			Init) %Red		RPD	RPI Limi
Analyte			183		163	Gnatti			'	- 78Rec		- RPD	3
Mkalinity			103		163		"	ng/L		01	00 - 120	0	3
ab Sample ID: MB 680-223199/5										Client	Sample ID:	Method	l Blani
Matrix: Water											Prep T	ype: To	tal/N/
Analysis Batch: 223199													
Analyte		MB Qualifier		RL		RL Ur	nit		D F	Prepared	Analya	ed	Dil Fa
Alkalinity	5.0			5.0	_		g/L				12/09/11		
Carbon Dioxide, Free	5.0			5.0			g/L				12/09/11		
_ab Sample ID: LCS 680-223199/7									Clien	t Sampl	e ID: Lab C	ontrol S	Sample
Matrix: Water												ype: To	
Analysis Batch: 223199											•		
			Spike		LCS	LCS					%Rec.		
Analyte			Added		Result	Qualif	ier U	nit		0 %Rec	Limits		
Nkalinity			183		163		n	ng/L		89	80 - 120		
_ab Sample ID: LCSD 680-223199/33								Clie	nt San	nple ID:	Lab Contro	l Samp	le Dup
Matrix: Water											Prep T	ype: To	tal/NA
Analysis Batch: 223199													
			Spike		LCSD	LCSD					%Rec.		RPI
Analyte			Added		Result	Qualif	ier U	Init		%Rec	Limits	RPD	Limi
Alkalinity			183		163		'n	ng/L		89	80.120	0	30
lethod: 325.2 - Chloride	· •												
Lab Sample ID: MB 680-224981/35										Client S	Sample ID:	Method	Blank
-ab calliple ib. Mib 000-22430 1733											•	ype: To	
•												, · ·	
Matrix: Water													
Matrix: Water Analysis Batch: 224981	МВ	МВ											
Matrix: Water		MB Qualifier		RL	M	DL Ur	nit		D F	Prepared	Analyz	ed:	Dil Fac

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Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

Method: 325.2 - Chloride (Continued)

TestAmerica Job ID: 680-74941-2

SDG: KPS070

	-'		
Lab Sample ID: LCS 680-224981/2			Client Sample ID: Lab Control Sample
Matrix: Water			Prep Type: Total/NA
Analysis Batch: 224981			
	Spike	LCS LCS	%Rec.

Analyte Added Result Qualifier Unit %Rec Limits Chlonde 50.0 51.3 85 - 115 mg/L 103

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-222817/14 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 222817 мв мв

RL Analyte Result Qualifier MDL Unit Dil Fac Prepared Analyzed

0,050 U 0,050 Nitrate as N 12/06/11 15:41 mg/L

Lab Sample ID: LCS 680-222817/15 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 222817

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Nitrate as N 0.497 0.503 mg/L 101 90 - 110 Nitrate Nitrite as N 0.998 1.00 mg/L 100 90 - 110 Nitrite as N 0.502 0.499 mg/L 90 - 110 99

Lab Sample ID: MB 680-222914/14 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 222914

MB MB MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac 0.050 U 0,050 Nitrate as N mg/L 12/07/11 16:49

Lab Sample ID: LCS 680-222914/15 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 222914 Spike LCS LCS %Rec. Analyte Added Unit %Rec Limits Result Qualifier Nitrate as N 0.497 0.504 mg/L 102 90 - 110 mg/L Nitrate Nitrite as N 0.998 0.997 100 90 - 110 Nitrite as N 0.502 0.493 mg/L 98 90 - 110

Method: 375.4 - Sulfate

Lab Sample ID: MB 680-223003/1 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

Analysis Batch: 223003

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dit Fac 5.0 U 5.0 Sulfate mg/L 12/08/11 12:37

JAN 0 5 2012

Prep Type: Total/NA

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Method: 375.4 - Sulfate (Continu	ied)							_	_			
Lab Sample ID: LCS 680-223003/2								CI	ient S	Sample	ID: Lab Control	Sample
Matrix: Water											Prep Type:	Total/NA
Analysis Batch: 223003												
			Spike		LCS						%Rec.	
Analyte			Added			Qualifier	Unit		0	%Rec	Limits	
Sulfate			20,0		19.3		mg/L			96	75 - 125	
Lab Sample ID: MB 680-224897/1									С	lient Sa	ample ID: Metho	
Matrix: Water											Prep Type: `	Total/NA
Analysis Batch: 224897												
		MB		-		Di Haia		_			0 b d	Dil F
Analyte	S.0	Qualifier		5.0	MI	DL Unit mg/L		D — -	Pre	pared	Analyzed 12/28/11 15:20	Dil Fac
Sulfate 	5.0	U		5.0		nigrL					12/20/11 15:20	ļ
Lab Sample ID: LCS 680-224897/2								Cli	ient S	Sample	ID: Lab Control	Sample
Matrix: Water											Prep Type:	Total/NA
Analysis Batch: 224897												
			Spike		LCS				_		%Rec.	
Analyte			Added			Qualifier	Unit			%Rec	Limits	
Sulfate —			20.0		18.8		mg/L			94	75 - 125	
Method: 415.1 - DOC												
 Lab Sample ID: MB 680-224100/1									С	lient Sa	ample ID: Metho	od Blank
Matrix: Water											Prep Type: D	
Analysis Batch: 224100												
	MB	MB										
Analyte	Result	Qualifier		RL	MI	DL Unit		0	Pre	pared	Analyzed	Dil Fac
Dissolved Organic Carbon	1.0	U		1,0		mg/L					12/15/11 18:27	1
Lab Sample ID: LCS 680-224100/2								Cli	ient S	Sample	ID: Lab Control	Sample
Matrix: Water										•	Prep Type: D	
Analysis Batch: 224100											,	
•			Spike		LCS	LCS					%Rec.	
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits	
Dissolved Organic Carbon			20.0		19.4		mg/L			97	80 - 120	
Method: 415.1 - TOC												
– Lab Sample ID: MB 680-224825/2									С	lient Sa	ample ID: Metho	od Blank
Matrix: Water											Prep Type:	
Analysis Batch: 224825											-	
	MB	МВ										
Analyte		Qualifier		RL	M	OL Unit		D _	Pre	pared	Analyzed	Dil Fac
Total Organic Carbon	1.0	U		1.0		mg/L					12/27/11 13:30	1
Lab Sample ID: LCS 680-224825/4								Cli	ent S	ample	ID: Lab Control	Sample
Matrix: Water											Prep Type:	Total/NA
Analysis Batch: 224825												
			Spike		LCS						%Rec.	
Analyte			Added			Qualifier	Unit		D	%Rec	Limits	
Total Organic Carbon			20.0		19.6		mg/L			98	80 - 120	

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QC Association Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

GC/MS VOA					
Analysis Batch: 22343	36				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
680-74966-6	4Q11 SUPP Trip Blank #3	Total/NA	Water	8260B	
LCS 680-223436/3	Lab Control Sample	Total/NA	Water	6260B	
LCSD 680-223436/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223436/6	Method Blank	Total/NA	Water	8260B	
- Analysis Batch: 22391	0				
– Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bate
680-74941-4	GWE-1D-1211	Total/NA	Water	8260B	
680-74941-6	GWE-2D-1211-EB	Total/NA	Water	82808	
680-74941-7	4Q11 SUPP Trip Blank #2	Total/NA	Water	8260B	
LCS 680-223910/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-223910/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-223910/7	Method Blank	Total/NA	Water	8260B	
nalysis Batch: 22419		, 			
•					
Lab Sample 1D	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
680-74988-1	GWE-3D-1211	Total/NA	Water	8260B	
680-74988-3	GWE-3D-1211-AD	Total/NA	Water	8260B	
680-74988-4	GWE-2D-1211	Total/NA	Water	82608	
680-74988-4 MS	GWE-2D-1211	Total/NA	Water	82808	
680-74988-4 MSD	GWE-2D-1211	Total/NA	Water	8280B	
LCS 680-224198/4	Lab Control Sample	Tota!/NA	Water	8260B	
LCSD 680-224198/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-224198/7	Method Blank	Total/NA	Water	8260B	
		I OlainaA	YYAICI	OZGOB	
		·	yyalel		
GC VOA					·
GC VOA Analysis Batch: 22368	5	·		- 	Drop Rate
GC VOA nalysis Batch: 22368 Lab Sample ID	5 Client Sample ID	Prep Type	Matrix	 Method	Prep Bate
GC VOA nalysis Batch: 22368 Lab Sample ID 680-74941-4	Client Sample ID GWE-1D-1211	Prep Type Total/NA	Matrix Water	Method	Prep Bate
GC VOA nalysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1	Client Sample ID GWE-1D-1211 GWE-3D-1211	Prep Type Total/NA Total/NA	Matrix Water Water	Method RSK-175 RSK-175	Prep Bate
GC VOA nalysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4	5 Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211	Prep Type Total/NA Total/NA Total/NA	Matrix Water Water Water	Method RSK-175 RSK-175 RSK-175	Prep Bate
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample	Prep Type Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175	Prep Bate
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	Prep Bato
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample	Prep Type Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175	Prep Bato
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	Prep Bato
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	Prep Bate
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 MB 680-223685/1 Metals rep Batch: 222847 Lab Sample ID	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
nalysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1 Ietals rep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
nalysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1 Ietals rep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/2-A	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Dissolved	Matrix Water Water Water Water Water Water Water Water Water Water Matrix Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
nalysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 Ietals rep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recoverable Dissolved Total Recoverable	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175	
nalysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 MB 680-223685/1 Ietals rep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A MB 680-222847/1-A rep Batch: 222916	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recoverable Dissolved Total Recoverable	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 And And And And And And And And And And	Prep Bate
EC VOA nalysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1 Metals rep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A rep Batch: 222916 Lab Sample ID	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 Asscription of the control of the	Prep Bate
nalysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 Ietals rep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A rep Batch: 222916 Lab Sample ID 680-74988-1	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-3D-1211	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 Method 3005A 3005A 3005A 3005A	Prep Bate
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 MB 680-223685/1 Ietals rep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A rep Batch: 222916 Lab Sample ID 680-74988-1 680-74988-1 680-74988-2	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-3D-1211 GWE-3D-F(0.2)-1211	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable Total Recoverable	Matrix Water Water Water Water Water Water Water Water Matrix Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 Method 3005A 3005A 3005A 3005A 3005A 3005A 3005A	Prep Bate
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/4 MB 680-223685/1 Aletals Prep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A Prep Batch: 222916 Lab Sample ID 680-74988-1 680-74988-2 680-74988-4	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-3D-F(0.2)-1211 GWE-3D-F(0.2)-1211 GWE-3D-F(0.2)-1211 GWE-3D-F(0.2)-1211	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable Total Recoverable Total Recoverable Total Recoverable	Matrix Water Water Water Water Water Water Water Water Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 Method 3005A 3005A 3005A 3005A 3005A 3005A 3005A 3005A 3005A	Prep Bate
Analysis Batch: 22368 Lab Sample ID 680-74941-4 680-74988-1 680-74988-4 LCS 680-223685/3 LCSD 680-223685/1 Metals Prep Batch: 222847 Lab Sample ID 680-74941-4 680-74941-5 LCS 680-222847/1-A Prep Batch: 222916	Client Sample ID GWE-1D-1211 GWE-3D-1211 GWE-2D-1211 Lab Control Sample Lab Control Sample Dup Method Blank Client Sample ID GWE-1D-1211 GWE-1D-F(0.2)-1211 Lab Control Sample Method Blank Client Sample ID GWE-3D-1211 GWE-3D-F(0.2)-1211	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recoverable Dissolved Total Recoverable Total Recoverable Total Recoverable Total Recoverable	Matrix Water Water Water Water Water Water Water Water Matrix Water Water Water Water Water Water Water Water Water Water Water Water	Method RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 RSK-175 Method 3005A 3005A 3005A 3005A 3005A 3005A 3005A	Prep Bato

QC Association Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

3 Databi 1111016 /C	antinuad)				
Prep Batch: 222916 (C	ontinuea)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
MB 680-222916/1-A	Method Blank	Total Recoverable	Water	3005A	
nalysis Batch: 22295	9				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-74941-4	GWE-1D-1211	Total Recoverable	Water	6010B	22284
680-74941-5	GWE-1D-F(0.2)-1211	Dissolved	Water	6010B	22284
LCS 680-222847/2-A	Lab Control Sample	Total Recoverable	Water	6010B	22284
MB 680-222847/1-A	Method Blank	Total Recoverable	Water	6010B	22284
nalysis Batch: 22359	4				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-74986-1	GWE-3D-1211	Total Recoverable	Water	60108	22291
680-74988-2	GWE-3D-F(0.2)-1211	Dissolved	Water	6010B	22291
680-74988-4	GWE-2D-1211	Total Recoverable	Water	6010B	22291
680-74988-5	GWE-2D-F(0.2)-1211	Dissolved	Water	6010B	22291
LCS 680-222916/2-A	Lab Control Sample	Total Recoverable	Water	6010B	22291
MB 680-222916/1-A	Method Blank	Total Recoverable	Water	6010B	22291
Seneral Chemistry					
nalysis Batch: 22281	7				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-74941-4	GWE-1D-1211	Total/NA	Water	353.2	
LCS 660-222617/15	Lab Control Sample	Total/NA	Water	353.2	
MB 880-222817/14	Method Blank	Total/NA	Water	353.2	
nalysis Batch: 22283	1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batci
680-74941-4	GWE-1D-1211	Total/NA	Water	310.1	
LCS 680-222831/6	Lab Control Sample	Total/NA	Water	310.1	
LC\$D 680-222831/19	Lab Control Sample Dup	Total/NA	Water	310.1	
MB 680-222831/5	Method Blank	Total/NA	Water	310,1	
nalysis Batch: 22291	4				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
680-74988-1	GWE-3D-1211	Total/NA	Water	353.2	
680-74988-4	GWE-2D-1211	Total/NA	Water	353.2	
LCS 680-222914/15	Lab Control Sample	Tolal/NA	Water	353.2	
MB 680-222914/14	Method Blank	Total/NA	Water	353.2	
nalysis Batch: 22300	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
680-74941-4	GWE-1D-1211	Total/NA	Water	375.4	
LCS 680-223003/2	Lab Control Sample	Total/NA	Water	375.4	
MB 680-223003/1	Method Blank	Total/NA	Water	375.4	
nalysis Batch: 22319					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
680-74988-1	GWE-3D-1211	Total/NA	Water	310.1	
680-74986-4	GWE-2D-1211	Total/NA	Waler	310.1	
LCS 680-223199/7	Lab Control Sample	Total/NA	Water	310.1	
LCSD 680-223199/33	Lab Control Sample Dup	Total/NA	Waler	310.1	

QC Association Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Analysis Batch: 2231	99 (Continued)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Satch
MB 680-223199/5	Method Blank	Total/NA	Water	310.1	
nalysis Batch: 2241	00				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-74941-5	GWE-1D-F(0.2)-1211	Dissolved	Water	415.1	
LCS 680-224100/2	Lab Control Sample	Dissolved	Water	415.1	
MB 880-224100/1	Method Blank	Dissolved	Water	415.1	
nalysis Batch: 2248	25				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-74941-4	GWE-1D-1211	Total/NA	Water	415.1	
680-74988-1	GWE-3D-1211	Total/NA	Water	415.1	
680-74988-4	GWE-2D-1211	Total/NA	Water	415.1	
LCS 680-224825/4	Lab Control Sample	Total/NA	Water	415,1	
	Method Blank	Total/NA	Water	415.1	
MB 680-224825/2	Method Blank	Total/NA	yya(e)	415.1	
nalysis Batch: 2248	46	-			Pren Batcl
nalysis Batch: 2248 Lab Sample ID	46 Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
nalysis Batch: 2248 Lab Sample ID 680-74988-2	46	-			Prep Batcl
nalysis Batch: 2248 Lab Sample ID 680-74988-2 680-74988-5	Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211	Prep Type Dissolved	Matrix Water	Method 415.1	Prep Batc
nalysis Batch: 2248 Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 2248	Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211	Prep Type Dissolved	Matrix Water Water Matrix	Method 415.1 415.1 Method	
nalysis Batch: 2248 Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 2248 Lab Sample ID	GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211	Prep Type Dissolved Dissolved	Matrix Water Water	Method 415.1 415.1	
nalysis Batch: 2248- Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 2248- Lab Sample ID 680-74988-1	46 Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211 97 Client Sample ID	Prep Type Dissolved Dissolved Prep Type	Matrix Water Water Matrix	Method 415.1 415.1 Method	
nalysis Batch: 2248- Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 2248- Lab Sample ID 680-74988-1 680-74988-4	Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211 97 Client Sample ID GWE-3D-1211	Prep Type Dissolved Dissolved Prep Type Total/NA	Matrix Water Water Matrix Water	Method 415.1 415.1 Method 375.4	
nalysis Batch: 2248- Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 2248- Lab Sample ID 680-74988-1 680-74988-4 LCS 680-224897/2	Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211 97 Client Sample ID GWE-3D-1211 GWE-2D-1211	Prep Type Dissolved Dissolved Prep Type Total/NA Total/NA	Matrix Water Water Matrix Water Water	Method 415.1 415.1 Method 375.4 375.4	
nalysis Batch: 2248- Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 2248- Lab Sample ID 680-74988-1 680-74988-4 LCS 680-224897/2 MB 680-224897/1	Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211 97 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank	Prep Type Dissolved Dissolved Prep Type Total/NA Total/NA Total/NA	Matrix Water Water Matrix Water Water Water	Method 415.1 415.1 Method 375.4 375.4 375.4	
nalysis Batch: 22484 Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 22484 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-224897/2 MB 680-224897/1	Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211 97 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank	Prep Type Dissolved Dissolved Prep Type Total/NA Total/NA Total/NA Total/NA Prep Type	Matrix Water Water Matrix Water Water Water Water Water Water	Method 415.1 415.1 Method 375.4 375.4 375.4 375.4	Prep Batcl
nalysis Batch: 22484 Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 22484 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-224897/2 MB 680-224897/1 nalysis Batch: 22494 Lab Sample ID	### Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211 97	Prep Type Dissolved Dissolved Prep Type Total/NA Total/NA Total/NA	Matrix Water Water Matrix Water Water Water Water Water Water	Method 415.1 415.1 Method 375.4 375.4 375.4 375.4	Prep Batcl
nalysis Batch: 22484 Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 22484 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-224897/2 MB 680-224897/1 nalysis Batch: 22494 Lab Sample ID 680-74941-4	Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211 97 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank 81 Client Sample ID	Prep Type Dissolved Dissolved Prep Type Total/NA Total/NA Total/NA Total/NA Prep Type	Matrix Water Water Matrix Water Water Water Water Water Water	Method 415.1 415.1 Method 375.4 375.4 375.4 375.4	Prep Batcl
nalysis Batch: 22484 Lab Sample ID 680-74988-2 680-74988-5 nalysis Batch: 22484 Lab Sample ID 680-74988-1 680-74988-4 LCS 680-224897/2 MB 680-224897/1 nalysis Batch: 22494 Lab Sample ID 680-74981-4 680-74988-1	Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211 97 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank 81 Client Sample ID GWE-1D-1211	Prep Type Dissolved Dissolved Prep Type Total/NA Total/NA Total/NA Prep Type Total/NA	Matrix Water Water Water Water Water Water Water Water Water Water Water	Method 415.1 415.1 Method 375.4 375.4 375.4 375.4 375.2	Prep Batcl
MB 680-224825/2	Client Sample ID GWE-3D-F(0.2)-1211 GWE-2D-F(0.2)-1211 97 Client Sample ID GWE-3D-1211 GWE-2D-1211 Lab Control Sample Method Blank 81 Client Sample ID GWE-1D-1211 GWE-3D-1211	Prep Type Dissolved Dissolved Prep Type Total/NA Total/NA Total/NA Prep Type Total/NA Total/NA Total/NA	Matrix Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water	Method 415.1 415.1 Method 375.4 375.4 375.4 375.4 375.2 Method 325.2 325.2	Prep Batcl

JAN 0 5 2012 TestAmerica Savannah

Lab Chronicle

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-1D-1211

Date Collected: 12/05/11 14:35 Date Received: 12/06/11 11:07

Lab Sample ID: 680-74941-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223910	12/16/11 00:58	WJC	TAL SAV
Total/NA	Analysis	RSK-175		1	223685	12/14/11 23:35	SMC	TAL SAV
Total Recoverable	Prep	3005A			222847	12/07/11 09:59	RAM	TAL SAV
Total Recoverable	Analysis	6010B		1	222959	12/08/11 05:15	BCB	TAL SAV
Total/NA	Analysis	353.2		1	222817	12/06/11 15;51	JNC	TAL SAV
Total/NA	Analysis	310.1		1	222831	12/06/11 19:20	TH	TAL SAV
Total/NA	Analysis	375.4		10	223003	12/08/11 12:41	JR	TAL SAV
Total/NA	Analysis	415.1		1	224825	12/27/11 14:54	JR	TAL SAV
Total/NA	Analysis	325.2		1	224981	12/29/11 10:04	JR	TAL SAV

Client Sample ID: GWE-1D-F(0.2)-1211

Date Collected: 12/05/11 14:35

Date Received; 12/06/11 11:07

Lab Sample ID: 680-74941-5

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
	Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Dissolved	Prep	3005A			222847	12/07/11 09:59	RAM	TAL SAV
	Dissolved	Analysis	6010B		1	222959	12/08/11 05:00	BCB	TAL SAV
İ	Dissolved	Analysis	415.1		1	224100	12/15/11 18:27	JR	TAL SAV

Client Sample ID: GWE-2D-1211-EB

Date Collected: 12/05/11 15:00 Date Received: 12/06/11 11:07 Lab Sample ID: 680-74941-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B			223910	12/15/11 23:51	WJC	TAL SAV	

Client Sample ID: 4Q11 SUPP Trip Blank #2

Date Collected: 12/05/11 00:00

Date Received: 12/06/11 11:07

Lab Sample	ID: 680-74941	1-7
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Matrix: Water

İ		Batch	Batch		Dilution	Batch	Prepared		
i	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
i	Total/NA	Analysis	8260B		1	223910	12/15/11 22:21	MJC	TAL SAV

Client Sample ID: GWE-3D-1211

Date Collected: 12/06/11 09:10

Date Received: 12/07/11 12:30

Lab Sample ID: 680-74988-1

Matrix: Water

İ		Batch	Batch		Dilution	Batch	Prepared		
i	Ргер Туре	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
-	Total/NA	Analysis	8260B		10	224198	12/20/11 13:16	RB	TAL SAV
İ	Total/NA	Analysis	RSK-175		1	223685	12/14/11 23:47	SMC	TAL SAV
!	Total Recoverable	Prep	3005A			222916	12/12/11 08:20	RAM	TAI, SAV
1	Total Recoverable	Analysis	6010B		1	223594	12/14/11 04:29	BCB	TAL SAV
!	Total/NA	Analysis	353.2		1	222914	12/07/11 16:55	JNC	TAL SAV

Lab Chronicle

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

·TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-3D-1211

Lab Sample ID: 680-74988-1

Date Collected: 12/06/11 09:10 Date Received: 12/07/11 12:30 Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	310.1		1	223199	12/09/11 19:21	TH	TAL SAV
Total/NA	Analysis	415.1		1	224825	12/27/11 15:08	JR	TAL SAV
Total/NA	Analysis	375.4		5	224897	12/28/11 15:50	JR	TAL SAV
Total/NA	Analysis	325.2		1	224981	12/29/11 10:04	JR	TAL SAV

Client Sample ID: GWE-3D-F(0.2)-1211

Lab Sample ID: 680-74988-2

Matrix: Water

Date Collected: 12/06/11 09:10 Date Received: 12/07/11 12:30

	_	Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
ĺ	Dissolved	Prep	3005A			222918	12/12/11 08:20	RAM	TAL SAV
	Dissolved	Analysis	6010B		1	223594	12/14/11 04:34	8CB	TAL SAV
	Dissolved	Analysis	415.1		1	224846	12/27/11 13:20	JR	TAL SAV

Lab Sample ID: 680-74988-3

Date Collected: 12/06/11 09:10

Client Sample ID: GWE-3D-1211-AD

Matrix: Water

Date Received: 12/07/11 12:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	224198	12/20/11 13:45	RB	TAL SAV

Client Sample ID: GWE-2D-1211

Lab Sample ID: 680-74988-4

Matrix: Water

Date Collected: 12/06/11 10:35 Date Received: 12/07/11 12:30

Batch Batch Dilution Batch Prepared Prep Type Method Type Run Factor Number or Analyzed Analyst Lab 224198 Total/NA Analysis 82608 12/20/11 16:09 R8 TAL SAV Total/NA Analysis RSK-175 223685 12/15/11 00:00 SMC TAL SAV 222916 Total Recoverable Prep 3005A 12/12/11 08:20 RAM TAL SAV Total Recoverable 6010B 223594 12/14/11 04:39 TAL SAV Analysis BCB 1 Total/NA Analysis 353.2 1 222914 12/07/11 16:57 JNC TAL SAV Total/NA Analysis 310.1 223199 12/09/11 19:31 ΤH TAL SAV Total/NA 224825 Analysis 415.1 12/27/11 15:22 JR TAL SAV Total/NA Analysis 375.4 10 224897 12/28/11 15:54 IR TAL SAV Total/NA Analysis 325.2 224981 12/29/11 10:04 1 JR TAL SAV

Client Sample ID: GWE-2D-F(0.2)-1211

Lab Sample ID: 680-74988-5

Date Collected: 12/06/11 10:35

Matrix: Water

Date Received: 12/07/11 12:30

ĺ		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
i	Dissolved	Prep	3005A			222916	12/12/11 08;20	RAM	TAL SAV
	Dissolved	Analysis	6010B		1	223594	12/14/11 04:54	BCB	TAL SAV

Lab Chronicle

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

Client Sample ID: GWE-2D-F(0.2)-1211

Date Collected: 12/06/11 10:35

Lab Sample ID: 680-74988-5

Matrix: Water

Date Received: 12/07/11 12:30

·	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Analysis	415.1		1	224846	12/27/11 13:20	JR	TAL SAV

Client Sample ID: 4Q11 SUPP Trip Blank #3

Lab Sample ID: 680-74988-6

Matrix: Water

Date Collected: 12/06/11 00:00 Date Received: 12/07/11 12:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	223436	12/12/11 22:53	AJMC	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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JAN 0 5 2012

Savannah S102 LaRoche Avonue		Chai	Chain of Custody Record	ustod	v Rec	ord				TestAmerica	738 9
Savannah, GA 31404 phone 912,354,7858 fax 912,352,0165) 5			3				TestAmerica Laboratories, Inc.	2
fact	Project Manager: Dave Palmer		Site Cont	act: Nath	Site Contact: Nathan McNurlen		Date: 12	11/5/1		COC No:	П
URS Corporation	TeVFax: (314) 743-4154		Lab Cont	Lab Contact: Lidya Gulizia	Gulizia	င်	Carrier:	FULEX		5- of 3- COCs	
1001 Highlands Plaza Drive West, Suite 300	Analysis Turnaround Time	Time	織	Þ						Job No.	_
3110	Calendar (C) or Work Days (V	ر ج	Seli Seli	SLE							_
(314) 429-0100 Phone	TAT if different from Below Standard	Standord		γ pγ		8				SDG No	Ţ
1Q11 Supplemental					Si	109					
Site: Solutia WG Krummrich Facility	2 days			'n		м ръ					
PO#	l day		097)1E &	rese	WPS					_
Sample Identification	Sample Sample Sample Date Time Type	# of Matrix Con.	FILEFEE SE TOLE BY 8	AllyCO2 b	Methane by Vitrate by TOC by 41	DOC PA 43				Sample Specific Notes:	
114	1.	Water 12	3	1 1	3 2 1						
,	5 5E/1 1	Water 2	×			1 1					
۱١	9 0051 1	3	3				_				
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	- Kr.										
	1,										
4Q11 SUPP Trip Blank # 🚅	13/5/11	- Water 2	2								
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; S=NaOH; 6=Other	OH; 6=Other		2 1	4 1	1 1 3,1	1 2 4 2			H		П
Possible Hazard Identification Non-Hazard	Poison B 🔲 , Unknown 🦳		Samp	mple Disposal (A I	sal (A fe o Client	e may be ae ∭ ■ Diş	e assessed if sar Disposal By Lab	rsamples ar Lab	re retained for	Sample Disposal (A fee may be assessed if samples are retained fonger than 1 month) Cheturn To Client Months	
Ŭ										1666-087	
									الاياد	2. 2. 0. C. 1.4°C	
month	Сотрапу: URS	Date/jime: 12/5/11 1:	DES!	O See Day	Beceived by On m	ď	ਠੱ	Company		Date Times 1 5 30	
Relinquished by: Relinquished by:	Company: Company:	Date/Time:	HAN Receiv	Received by: Received by:		Daughtey		Company:		Dave Time: 13. Ob. 11 c 1 1707 Dave Time:	\top
				.							_

Page 34 of 38

Chain of Custody Record

TestAmericans

FREELEADER IN ENVIRONMENTAL TESTING

- No. 7.

Savannah 5102 LaRoche Avenue

Savannah, GA 31404 phone 912,354,7858 fax 912,352,0165

phone 912,354,7858 fax 912,352,0165												TestAmerica Laboratories, Inc.	
Client Contact	Project Manager: Dave Palmor	almer	S	ite Contac	t: Nathar	Site Contact: Nathan McNurlen	ĥ	Date:	1/2/	1		COC No:	Γ
URS Corporation	Tel/Fax; (314) 743-4154		I	ab Conta	Lab Contact: Lidya Gulizia	Gulizia	0	Carrier:	Į,	Ġ.		1 of 1 cocs	
1001 Highlands Plaza Drive West, Suite 300	Analysis Turnaround Time	round Time	25.4	357	Ė		L		F	L		Job No.	
3110	Calendar (C) or Work Days (W)	Days (W)		כישה	7.S.C							21562733.000	
_	TAT if different from Below Standard	Below Standard	3964	(*0er1/	e Ko							_21562709.00008	ن
(314) 429-0462 FAX	2 weeks	eks		350	1931	av.	~					SDG No.	Г
Project Name: 4Q11 Supplemental GW Sampling	1 week	*	NI SUB				200	•					
Site: Solutia WG Krummrich Facility	2 days	\$\$	in (47)		S/7"	;	(a u						
PO#	1 day		(C-2-7)	097	332	5,E25,2 1,2							_
Samble Identification		Sample Matrix	# of Cant	filtered Sa VOCs by B Fotal Fe/M	Chloride by	Methane by Vitrate by Acchant b	OC Py 41					Sample Specific Notes	
6WE-3D 1011	0160 1	11	21		-	2 1		1	ļ		-		
6WE-3D -F(0.2)-13.11	0160	G Water	2	×			1 1			-			
GWE-30-1211-AD	<u> </u>	8	m	3									
6WE-3D-1211		8 P	72	5	<u>-</u>	32/							
/ 1/61-(6.0)-+-(6.0)		W 9	6	×			_						
6WE-2D-1311-MS	5501	M 9	W	3									
GWE-BD-1711-MSD	Ĭ	M 9	Ŋ	િ									
									_				
									_		 		<u> </u>
\									_				
4Q11 SUPP Trip Blank # 🗷	11/9/21	Water	77	2									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6=Other	OH; 6= Other			2 1	4	1 1 3.1	2 4	2	H				П
Possible Hazard Identification Non-Hazard Flamuable Skin Irriant	Poison B 🗀 U	Опкпочп 🔲		Sample ∏	- Dispose Return To	a l (A fee m Client	ay be a	ssesser sposal t	d if san 3y Lab	oples are	retained Archive	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Heturn To Clieni Disposal By Lab	-
10											7:/	1.4 % 680-74988	
Relinquished by:	Company: URS	Date/Time:	٠٦	Received by JA	Joseph Line	1/1/20	ļ <u>-</u>	٣	Company			Date/Time: // // // // // // //	<u> </u>
Relinquished by:	Compuny	Date/June:		Sec.	J. j.	3			Company:	- -			
Relinquished by:	Company:	Date/Time!	è	Receive	d by Mes	Received by Margare	1		Company	3	ŗ	Date/Time: 1, 1925	<u> </u>

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Login Sample Receipt Checklist

Client: Solutia Inc.

Job Number: 680-74941-2

SDG Number: KPS070

List Source: TestAmerica Savannah

Login Number: 74941 List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 and 1.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	5D MS/MSD cancelled by client; will submit on alt location.
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



JAN 0 5 2012

Login Sample Receipt Checklist

Client: Solutia Inc.

Job Number: 680-74941-2

SDG Number: KPS070

List Source: TestAmerica Savannah

Login Number: 74988 List Number: 1

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	N/A	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

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Certification Summary

Client: Solutia Inc.

Project/Site: WGK Supp GW 4Q11 - DEC 2011

TestAmerica Job ID: 680-74941-2

SDG: KPS070

aboratory	Authority	Program	EPA Region	Certification ID
estAmerica Savannah	A2LA	DoD ELAP		0399-01
estAmerica Savannah	A2LA	ISO/IEC 17025		399.01
estAmerica Savanлah	Alabama	State Program	4	41450
estAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
estAmerica Savannah	Arkansas	State Program	6	88-0692
estAmerica Savannah	California	NELAC	9	3217CA
estAmerica Savannah	Colorado	State Program	8	N/A
estAmerica Savannah	Connecticut	State Program	1	PH-0161
estAmerica Savannah	Delaware	State Program	3	N/A
estAmerica Savannah	Florida	NELAC	4	E87052
estAmerica Savannah	Georgia	Georgia EPD	4	N/A
estAmerica Savanлah	Georgia	State Program	4	803
estAmerica Savannah	Guam	State Program	9	09-005r
estAmerica Savannah	Hawaii	State Program	9	N/A
estAmerica Savannah	Illinois	NELAC	5	200022
estAmerica Savannah	Indiana	State Program	5	N/A
estAmerica Savannah	lowa	State Program	7	353
estAmerica Savannah	Kentucky	Kentucky UST	4	18
estAmerica Savannah	Kentucky	State Program	4	90084
estAmerica Savannah	Louisiana	NELAC	6	30690
estAmerica Savannah	Louisiana	NELAC	6	LA100015
estAmerica Savanлah	Маіле	State Program	1	GA00006
estAmerica Savannah	Maryland	State Program	3	250
estAmerica Savannah	Massachusetts	State Program	1	M-GA006
stAmerica Savannah	Michigan	State Program	5	9925
estAmerica Savannah	Mississippi	State Program	4	N/A
stAmerica Savannah	Montana	State Program	8	CERT0081
estAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savanлah
estAmerica Savannah	New Jersey	NELAC	2	GA769
estAmerica Savannah	New Mexico	State Program	6	N/A
estAmerica Savannah	New York	NELAC	2	10842
estAmerica Savannah	North Carolina	North Carolina DENR	4	269
estAmerica Savannah	North Carolina	North Carolina PHL	4	13701
estAmerica Savannah	Oklahoma	State Program	6	9984
estAmerica Savanлah	РеплѕуІvапіа	NELAC	3	68-00474
estAmerica Savanлah	Puerto Rico	State Program	2	GA00006
estAmerica Savannah	Rhode Island	State Program	1	LAO00244
estAmerica Savannah	South Carolina	State Program	4	98001
estAmerica Savannah	Tennessee	State Program	4	TN02961
estAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
estAmerica Savannah	USDA	USDA		SAV 3-04
estAmerica Savannah	Vermont	State Program	1	87052
stAmerica Savannah	Vīrginīa	NELAC	3	460161
stAmerica Savannah	Virginia	State Program	3	302
stAmerica Savannah	Washington	State Program	10	C1794
estAmerica Savannah	West Virginia	West Virginia DEP	3	94
estAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
estAmerica Savannah	Wisconsin	State Program	5	999819810
estAmerica Savannah	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.